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(54) Title: NOVEL PEPTIDES AS NS3-SERINE PROTEASE INHIBITORS OF HEPATITIS C VIRUS

(57) Abstract: The present invention discloses novel compounds which have HCV protease inhibitory activity as well as methods for preparing such compounds. In another embodiment, the invention discloses pharmaceutical compositions comprising such compounds as well as methods of using them to treat disorders associated with the HCV protease.





# Novel Peptides as NS3-Serine Protease Inhibitors of Hepatitis C Virus

#### Field of Invention

The present invention relates to novel hepatitis C virus ("HCV") protease inhibitors, pharmaceutical compositions containing one or more such inhibitors, methods of preparing such inhibitors and methods of using such inhibitors to treat hepatitis C and related disorders. This invention specifically discloses novel peptide compounds as inhibitors of the HCV NS3/NS4a serine protease. Priority for the invention is based on U.S. patent applications Serial Number 60/220,108 filed July 21, 2000, and Serial Number 09/908,955 filed July 19, 2001.

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#### Background of the Invention

Hepatitis C virus (HCV) is a (+)-sense single-stranded RNA virus that has been implicated as the major causative agent in non-A, non-B hepatitis (NANBH), particularly in blood-associated NANBH (BB-NANBH)(see, International Patent Application Publication No. WO 89/04669 and European Patent Application Publication No. EP 381 216). NANBH is to be distinguished from other types of viral-induced liver disease, such as hepatitis A virus (HAV), hepatitis B virus (HBV), delta hepatitis virus (HDV), cytomegalovirus (CMV) and Epstein-Barr virus (EBV), as well as from other forms of liver disease such as alcoholism and primary biliar cirrhosis.

Recently, an HCV protease necessary for polypeptide processing and viral replication has been identified, cloned and expressed; (see, e.g., U.S. Patent No. 5,712,145). This approximately 3000 amino acid polyprotein contains, from the amino terminus to the carboxy terminus, a nucleocapsid protein (C), envelope proteins (E1 and E2) and several non-structural proteins (NS1, 2, 3, 4a, 5a and 5b). NS3 is an approximately 68 kda protein, encoded by approximately 1893 nucleotides of the HCV genome, and has two distinct domains: (a) a serine

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protease domain consisting of approximately 200 of the N-terminal amino acids; and (b) an RNA-dependent ATPase domain at the C-terminus of the protein. The NS3 protease is considered a member of the chymotrypsin family because of similarities in protein sequence, overall three-dimensional structure and mechanism of catalysis. Other chymotrypsin-like enzymes are elastase, factor Xa, thrombin, trypsin, plasmin, urokinase, tPA and PSA. The HCV NS3 serine protease is responsible for proteolysis of the polypeptide (polyprotein) at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a and NS5a/NS5b junctions and is thus responsible for generating four viral proteins during viral replication. This has made the HCV NS3 serine protease an attractive target for antiviral chemotherapy.

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It has been determined that the NS4a protein, an approximately 6 kda polypeptide, is a co-factor for the serine protease activity of NS3. Autocleavage of the NS3/NS4a junction by the NS3/NS4a serine protease occurs intramolecularly (i.e., *cis*) while the other cleavage sites are processed intermolecularly (i.e., *trans*).

Analysis of the natural cleavage sites for HCV protease revealed the presence of cysteine at P1 and serine at P1' and that these residues are strictly conserved in the NS4a/NS4b, NS4b/NS5a and NS5a/NS5b junctions. The NS3/NS4a junction contains a threonine at P1 and a serine at P1'. The Cys→Thr substitution at NS3/NS4a is postulated to account for the requirement of *cis* rather than *trans* processing at this junction. See, e.g., Pizzi et al. (1994) Proc. Natl. Acad. Sci (USA) 91:888-892, Failla et al. (1996) Folding & Design 1:35-42. The NS3/NS4a cleavage site is also more tolerant of mutagenesis than the other sites. See, e.g., Kollykhalov et al. (1994) J. Virol. 68:7525-7533. It has also been found that acidic residues in the region upstream of the cleavage site are required for efficient cleavage. See, e.g., Komoda et al. (1994) J. Virol. 68:7351-7357.

Inhibitors of HCV protease that have been reported include antioxidants (see, International Patent Application Publication No. WO 98/14181), certain peptides and peptide analogs (see, International Patent Application Publication No. WO 98/17679, Landro et al. (1997) Biochem. 36:9340-9348, Ingallinella et al.

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(1998) <u>Biochem.</u> <u>37</u>:8906-8914, Llinàs-Brunet <u>et al.</u> (1998) <u>Bioorg. Med. Chem. <u>Lett.</u> <u>8</u>:1713-1718), inhibitors based on the 70-amino acid polypeptide eglin c (Martin <u>et al.</u> (1998) <u>Biochem.</u> <u>37</u>:11459-11468, inhibitors affinity selected from human pancreatic secretory trypsin inhibitor (hPSTI-C3) and minibody repertoires (MBip) (Dimasi <u>et al.</u> (1997) <u>J. Virol.</u> <u>71:</u>7461-7469), cV<sub>H</sub>E2 (a "camelized" variable domain antibody fragment) (Martin <u>et al.</u> (1997) <u>Protein Eng.</u> <u>10</u>:607-614), and α1-antichymotrypsin (ACT) (Elzouki <u>et al.</u>) (1997) <u>J. Hepat.</u> <u>27:</u>42-28). A ribozyme designed to selectively destroy hepatitis C virus RNA has recently been disclosed (see, *BioWorld Today* <u>9(217)</u>: 4 (November 10, 1998)).</u>

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Reference is also made to the PCT Publications, No. WO 98/17679, published April 30, 1998 (Vertex Pharmaceuticals Incorporated); WO 98/22496, published May 28, 1998 (F. Hoffmann-La Roche AG); and WO 99/07734, published February 18, 1999 (Boehringer Ingelheim Canada Ltd.).

HCV has been implicated in cirrhosis of the liver and in induction of hepatocellular carcinoma. The prognosis for patients suffering from HCV infection is currently poor. HCV infection is more difficult to treat than other forms of hepatitis due to the lack of immunity or remission associated with HCV infection. Current data indicates a less than 50% survival rate at four years post cirrhosis diagnosis. Patients diagnosed with localized resectable hepatocellular carcinoma have a five-year survival rate of 10-30%, whereas those with localized unresectable hepatocellular carcinoma have a five-year survival rate of less than 1%.

Reference is made to A. Marchetti *et al*, *Synlett*, <u>S1</u>, 1000-1002 (1999) describing the synthesis of bicylic analogs of an inhibitor of HCV NS3 protease. A compound disclosed therein has the formula:

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Reference is also made to W. Han *et al*, *Bioorganic & Medicinal Chem.* Lett, (2000) 10, 711-713, which describes the preparation of certain  $\alpha$ -ketoamides,  $\alpha$ -ketoesters and  $\alpha$ -diketones containing allyl and ethyl functionalities.

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Reference is also made to WO 00/09558 (Assignee: Boehringer Ingelheim Limited; Published February 24, 2000) which discloses peptide derivatives of the formula:

$$R_3$$
  $R_4$   $R_5$   $R_5$   $R_7$   $R_8$ 

where the various elements are defined therein. An illustrative compound of that series is:

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Reference is also made to WO 00/09543 (Assignee: Boehringer Ingelheim Limited; Published February 24, 2000) which discloses peptide derivatives of the formula:

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$$R_6$$
 $A_3$ 
 $R_4$ 
 $A_1$ 
 $A_1$ 
 $A_2$ 
 $A_3$ 
 $A_4$ 
 $A_4$ 

where the various elements are defined therein. An illustrative compound of that series is:

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Current therapies for hepatitis C include interferon- $\alpha$  (INF $_{\alpha}$ ) and combination therapy with ribavirin and interferon. See, <u>e.g.</u>, Beremguer <u>et al.</u> (1998) <u>Proc. Assoc. Am. Physicians 110(2)</u>:98-112. These therapies suffer from a low sustained response rate and frequent side effects. See, <u>e.g.</u>, Hoofnagle <u>et al.</u> (1997) <u>N. Engl. J. Med. 336</u>:347. Currently, no vaccine is available for HCV infection.

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Pending and copending U. S. patent applications, Serial No. 60/194,607, filed April 5, 2000, and Serial No. 60/198,204, filed April 19, 2000, Serial No. 60/220,110, filed July 21, 2000, Serial No. 60/220,109, filed July 21, 2000, Serial No. 60/220,107, filed July 21, 2000, Serial No. 60/254,869, filed December 12, 2000, and Serial No. 60/220,101, filed July 21, 2000, disclose various types of peptides and/or other compounds as NS-3 serine protease inhibitors of hepatitis C virus.

There is a need for new treatments and therapies for HCV infection. It is, therefore, an object of this invention to provide compounds useful in the treatment or prevention or amelioration of one or more symptoms of hepatitis C.

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It is a further object herein to provide methods of treatment or prevention or amelioration of one or more symptoms of hepatitis C.

A still further object of the present invention is to provide methods for modulating the activity of serine proteases, particularly the HCV NS3/NS4a serine protease, using the compounds provided herein.

Another object herein is to provide methods of modulating the processing of the HCV polypeptide using the compounds provided herein.

#### **Summary of the invention**

In its many embodiments, the present invention provides a novel class of inhibitors of the HCV protease, pharmaceutical compositions containing one or more of the compounds, methods of preparing pharmaceutical formulations comprising one or more such compounds, and methods of treatment, prevention or amelioration or one or more of the symptoms of hepatitis C. Also provided are methods of modulating the interaction of an HCV polypeptide with HCV protease. Among the compounds provided herein, compounds that inhibit HCV NS3/NS4a serine protease activity are preferred. The present application discloses a compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound having the general structure shown in Formula I:

$$\mathbb{R}^4$$
 $\mathbb{R}^3$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^4$ 

Formula I

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#### wherein:

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Y is selected from the group consisting of alkyl, alkyl-aryl, heteroalkyl, heteroaryl, aryl-heteroaryl, alkyl-heteroaryl, cycloalkyl, alkyloxy, alkyl-aryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, alkylamino, arylamino, alkyl-arylamino, arylamino, heteroarylamino, cycloalkylamino and heterocycloalkylamino, with the proviso that Y maybe optionally substituted with X<sup>11</sup> or X<sup>12</sup>:

X<sup>11</sup> is alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl-alkyl, heterocyclyl, heterocyclylalkyl, aryl, alkylaryl, arylalkyl, heteroaryl, alkylheteroaryl, or

heteroarylalkyl, with the proviso that X<sup>11</sup> may be additionally optionally substituted with X<sup>12</sup>;

 $X^{12}$  is hydroxy, alkoxy, aryloxy, thio, alkylthio, arylthio, amino, alkylamino, arylamino, alkylsulfonyl, arylsulfonyl, alkylsulfonamido, arylsulfonamido, carboxy, carbalkoxy, carboxamido, alkoxycarbonylamino, alkoxycarbonyloxy, alkylureido, arylureido, halogen, cyano, or nitro, with the proviso that said alkyl, alkoxy, and aryl may be additionally optionally substituted with moieties independently selected from  $X^{12}$ ;

 $R^{1} \text{ is -C(O)R}^{5} \text{ or -B(OR)}_{2}, \text{ wherein } R^{5} \text{ is H, -OH, -OR}^{8}, \text{-NR}^{9}R^{10}, \text{-CF}_{3}, \text{-C}_{2}F_{5}, \\ -C_{3}F_{7}, \text{-CF}_{2}R^{6}, \text{-R}^{6}, \text{ or -C(O)R}^{7} \text{ wherein } R^{7} \text{ is H, -OH, -OR}^{8}, \text{-CHR}^{9}R^{10}, \text{ or } \\ -NR^{9}R^{10}, \text{ wherein } R^{6}, R^{8}, R^{9} \text{ and } R^{10} \text{ are independently selected from the } \\ \text{group consisting of H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, } \\ \text{cycloalkyl, arylalkyl, heteroarylalkyl, -[CH(R^{1'})]_{p}C(O)OR^{11}, -[CH(R^{1'})]_{p}C(O)NR^{12}R^{13}, -[CH(R^{1'})]_{p}S(O_{2})R^{11}, -[CH(R^{1'})]_{p}C(O)R^{11}, -[CH(R^{1'})]_{p}C(O)R^{11}, -[CH(R^{1'})]_{p}C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{4'})C(O)NR^{12}R^{13}, -CH(R^{1'})C(O)N(H)CH(R^{2$ 

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 $-CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)N(H)CH(R^{3'})C(O)N(H)CH(R^{4'})C(O)N(H)CH(R^{5'})C(O)OR^{11}\\$  and

-CH(R<sup>1'</sup>)C(O)N(H)CH(R<sup>2'</sup>)C(O)N(H)CH(R<sup>3'</sup>)C(O)N(H)CH(R<sup>4'</sup>)C(O)N(H)CH(R<sup>5'</sup>) C(O)NR<sup>12</sup>R<sup>13</sup>,

wherein R<sup>1'</sup>, R<sup>2'</sup>, R<sup>3'</sup>, R<sup>4'</sup>, R<sup>5'</sup>, R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, and R' are independently selected from the group consisting of H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, alkyl-aryl, alkyl-heteroaryl, aryl-alkyl and heteroaralkyl;

Z is selected from O, N, C(H) or C(R);

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W maybe present or absent, and if W is present, W is selected from C(=O), C(=S), C(=N-CN), or  $S(O_2)$ ;

Q maybe present or absent, and when Q is present, Q is C(H), N, P,  $(CH_2)_p$ ,  $(CHR)_p$ ,  $(CRR')_p$ , O, NR, S, or  $SO_2$ ; and when Q is absent, M may be present or absent; when Q and M are absent, A is directly linked to L;

A is O,  $CH_2$ ,  $(CHR)_p$ ,  $(CHR-CHR')_p$ ,  $(CRR')_p$ , N(R), S,  $S(O_2)$  or a bond;

E is CH, N, CR, or a double bond towards A, L or G;

G may be present or absent, and when G is present, G is  $(CH_2)_p$ ,  $(CHR)_p$ , or  $(CRR')_p$ ; and when G is absent, J is present and E is directly connected to the carbon atom in Formula I as G is linked to;

J maybe present or absent, and when J is present, J is  $(CH_2)_p$ ,  $(CHR)_p$ , or  $(CRR')_p$ ,  $S(O_2)$ , N(H), N(R) or O; and when J is absent, G is present and E is directly linked to N shown in Formula I as linked to J;

L may be present or absent, and when L is present, L is C(H), C(R), O, S or N(R); and when L is absent, then M may be present or absent; and if M is present with L being absent, then M is directly and independently linked to E, and J is directly and independently linked to E;

M may be present or absent, and when M is present, M is O, NR, S, S(O<sub>2</sub>),  $(CH_2)_p$ ,  $(CHR)_p$   $(CHR-CHR')_p$ , or  $(CRR')_p$ ;

p is a number from 0 to 6; and

R, R', R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> can be the same or different and are independently from the group consisting of H;  $C_1$ - $C_{10}$  alkyl;  $C_2$ - $C_{10}$  alkenyl;  $C_3$ - $C_8$  cycloalkyl;  $C_3$ - $C_8$ 

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heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halogen; (cycloalkyl)alkyl and (heterocycloalkyl)alkyl, wherein said cycloalkyl is made of three to eight carbon atoms, and zero to six oxygen, nitrogen, sulfur, or phosphorus atoms, and said alkyl is of one to six carbon atoms; aryl; heteroaryl; alkyl-aryl; and alkyl-heteroaryl;

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wherein said alkyl, heteroalkyl, alkenyl, heteroalkenyl, aryl, heteroaryl, cycloalkyl and heterocycloalkyl moieties may be optionally and chemically-suitably substituted, with said term "substituted" referring to optional and chemically-suitable substitution with one or more moieties selected from the group consisting of alkyl, alkenyl, aryl, aralkyl, cycloalkyl, heterocyclic, halogen, hydroxy, thio, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, sulfonamido, sulfoxide, sulfone, sulfonyl urea, hydrazide, and hydroxamate; further wherein said unit N-C-G-E-L-J-N in Formula I represents either a five-membered cyclic ring structure or a six-membered cyclic ring structure with the proviso that when said unit N-C-G-E-L-J-N represents a five-membered cyclic ring structure, or when the bicyclic ring structure in Formula I comprising N, C, G, E, L, J, N, A, Q, and M represents a five-membered cyclic ring structure, then said five-membered cyclic ring structure lacks a carbonyl group as part of the cyclic ring.

Among the above-stated definitions for the various moieties of Formula I, the preferred groups for the various moieties are as follows: Preferred definition for  $R^1$  is  $-C(O)R^5$  with  $R^5$  being H, -OH,  $-C(O)OR^8$  or  $-C(O)NR^9R^{10}$ , where  $R^8$ ,  $R^9$  and  $R^{10}$  are defined above. Still preferred moiety for  $R^1$  is  $-C(O)C(O)NR^9R^{10}$ , where  $R^9$  is H; and  $R^{10}$  is H,  $-R^{14}$ ,  $-[CH(R^{1'})]_pC(O)OR^{11}$ ,  $-[CH(R^{1'})]_pC(O)NR^{12}R^{13}$ ,  $-[CH(R^{1'})]_pC(O)R^{11}$ ,

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-CH(R<sup>1</sup>)C(O)N(H)CH(R<sup>2</sup>)C(O)NR<sup>12</sup>R<sup>13</sup>, or -CH(R<sup>1</sup>)C(O)N(H)CH(R<sup>2</sup>)(R'), wherein R<sup>14</sup> is H, alkyl, aryl, heteroalkyl, heteroaryl, cycloalkyl, alkyl-aryl, alkyl-heteroaryl, aryl-alkyl, alkenyl, alkynyl or heteroaralkyl.

Among the above for R<sup>10</sup>, preferred moieties for R<sup>10</sup> are: H, -R<sup>14</sup>,

- $\sim$  -CH(R<sup>1'</sup>)C(O)OR<sup>11</sup>, -CH(R<sup>1'</sup>)CH(R<sup>1'</sup>)C(O)OR<sup>11</sup>, -CH(R<sup>1'</sup>)C(O)NR<sup>12</sup>R<sup>13</sup>,
  - -CH(R1')CH(R1')C(O)NR12R13, -CH(R1')CH(R1')S(O2)R11,
  - -CH(R1')CH(R1')S(O2)N R12R13, -CH(R1')CH(R1')C(O)R11,
  - $-CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)OR^{11}$ ,  $-CH(R^{1'})C(O)N(H)CH(R^{2'})C(O)NR^{12}R^{13}$ , or
  - -CH( $R^{1'}$ )C(O)N(H)CH( $R^{2'}$ )(R'), wherein  $R^{1'}$  is H or alkyl, and  $R^{2'}$  is phenyl,
- substituted phenyl, hetero atom-substituted phenyl, thiophenyl, cycloalkyl, piperidyl or pyridyl.

More preferred moieties are: for R $^{1'}$  is H, for R $^{11}$  is H, methyl, ethyl, allyl, *tert*-butyl, benzyl,  $\alpha$ -methylbenzyl,  $\alpha$ -dimethylbenzyl, 1-methylcyclopropyl or 1-methylcyclopentyl; for

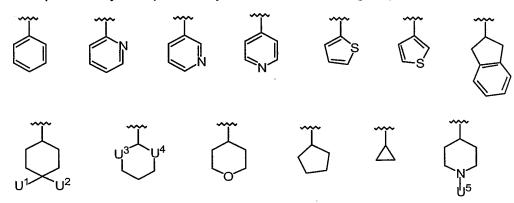
R' is hydroxymethyl or -CH<sub>2</sub>C(O)NR<sup>12</sup>R<sup>13</sup> where NR<sup>12</sup>R<sup>13</sup> is selected from the group consisting of:

wherein U<sup>6</sup> is H, OH, or CH₂OH;

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 $R^{14}$  is preferably selected from the group consisting of: H, Me, Et, *n*-propyl, methoxy, cyclopropyl, *n*-butyl, 1-but-3-ynyl, benzyl,  $\alpha$ -methylbenzyl, phenethyl, allyl, 1-but-3-enyl, OMe and cyclopropylmethyl;

and R<sup>2</sup> is preferably independently selected from the group consisting of:



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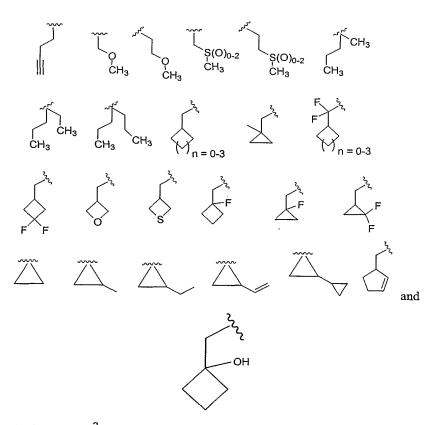
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wherein:

U<sup>1</sup> and U<sup>2</sup> maybe same or different and are selected from the group consisting of H, F, CH<sub>2</sub>COOH, CH<sub>2</sub>COOMe, CH<sub>2</sub>CONH<sub>2</sub>, CH<sub>2</sub>CONHMe, CH<sub>2</sub>CONMe<sub>2</sub>, azido, amino, hydroxyl, substituted amino and substituted hydroxyl;

U<sup>3</sup> and U<sup>4</sup> maybe same or different and are selected from O and S;
U<sup>5</sup> is selected from the moieties consisting of alkyl sulfonyl, aryl sulfonyl, heteroalkyl sulfonyl, heteroaryl sulfonyl, alkyl carbonyl, aryl carbonyl, heteroalkyl carbonyl, heteroaryl carbonyl, alkoxycarbonyl, aryloxycarbonyl, heteroaryloxycarbonyl, alkylaminocarbonyl, arylaminocarbonyl, heteroarylaminocarbonyl or a combination thereof.

Preferred moieties for R<sup>2</sup> are:



Preferred moieties for R<sup>3</sup> are:

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$$H_3C$$
 $CH_3$ 
 $CF_3$ 
 $CH_3$ 
 $CH_3$ 

wherein  $R^{31} = OH$  or O-alkyl;

Y<sup>19</sup> is selected from the following moieties:

and Y<sup>20</sup> is selected from the following moieties:

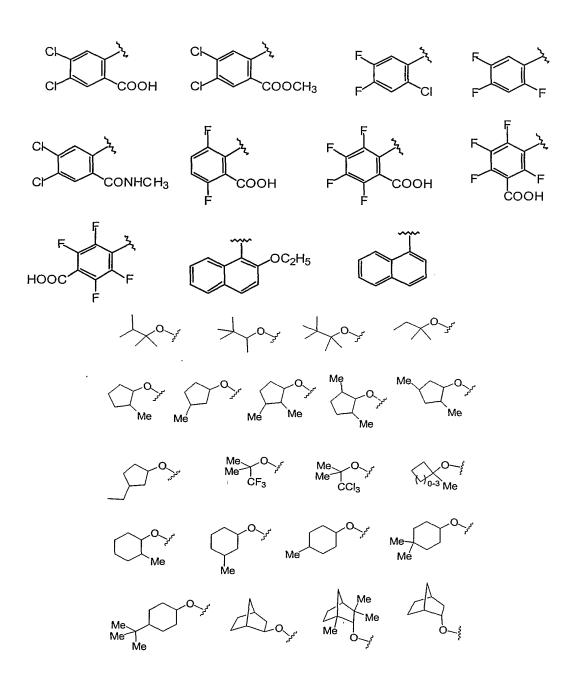
Additional R<sup>3</sup> moieties include the following:

where  $R^{51}$ = H, -COCH<sub>3</sub>, -COOtBu or -CONHtBu. Most preferred moieties for  $R^3$  are:

$$CH_{3} \xrightarrow{} CH_{3} \xrightarrow{$$

Some other preferred moieties are: for Z it is N, for R<sup>4</sup> it is H, and for W it is C=O. Additionally, the moiety Z-C-R<sup>3</sup> in Formula I, with R<sup>4</sup> being absent, may be represented by the following structures:

## Preferred moieties for Y are:

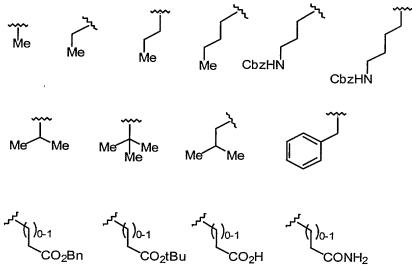


#### wherein:

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Y<sup>11</sup> is selected from H, COOH, COOEt, OMe, Ph, OPh, NHMe, NHAc, NHPh, CH(Me)<sub>2</sub>, 1-triazolyl, 1-imidazolyl, and NHCH<sub>2</sub>COOH;

Y<sup>12</sup> is selected from H, COOH, COOMe, OMe, F, Cl, or Br; Y<sup>13</sup> is selected from the following moieties:



 $Y^{14}$  is selected from MeS(O<sub>2</sub>), Ac, Boc, iBoc, Cbz, or Alloc;

10 Y<sup>15</sup> and Y<sup>16</sup> are independently selected from alkyl, aryl, heteroalkyl, and heteroaryl;

 $Y^{17}$  is -CF<sub>3</sub>, -NO<sub>2</sub>, -C(O)NH<sub>2</sub>, -OH, -C(O)OCH<sub>3</sub>, -OCH<sub>3</sub>, -OC<sub>6</sub>H<sub>5</sub>, -C<sub>6</sub>H<sub>5</sub>, -C(O)C<sub>6</sub>H<sub>5</sub>, -NH<sub>2</sub>, or -C(O)OH; and

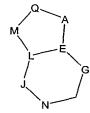
 $Y^{18}$  is  $-C(O)OCH_3$ ,  $-NO_2$ ,  $-N(CH_3)_2$ , F,  $-OCH_3$ ,  $-CH_2C(O)OH$ , -C(O)OH,  $-S(O_2)NH_2$ , or  $-NHCOCH_3$ .

5 Y may be more preferably represented by:

wherein:  $Y^{17} = CF_3$ ,  $NO_2$ ,  $CONH_2$ , OH,  $NH_2$ , or COOH;  $Y^{18} = F$ , COOH,

### Still more preferred moieties for Y are:

#### As shown in Formula I, the unit:



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represents a cyclic ring structure, which may be a five-membered or six-membered ring structure. When that cyclic ring represents a five-membered ring, it is a requirement of this invention that that five-membered cyclic ring does not contain a carbonyl group as part of the cyclic ring structure. Preferably, that five-membered ring is of the structure:

wherein R and R' are defined above. Preferred representations for that five-membered cyclic ring structure is:

where R<sup>20</sup> is selected from the following moieties:

Furthermore, that five-membered ring, along with its adjacent two exocyclic carbonyls, may be represented as follows:

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in which case,  $R^{21}$  and  $R^{22}$  may be the same or different and are independently selected from the following moieties:

Some preferred illustrations for the five-membered ring structure:

are as follows:

Additionally, the unit:

in Formula I may be represented by the following structures **b** and **c**:

Preferred definitions for **b** are:

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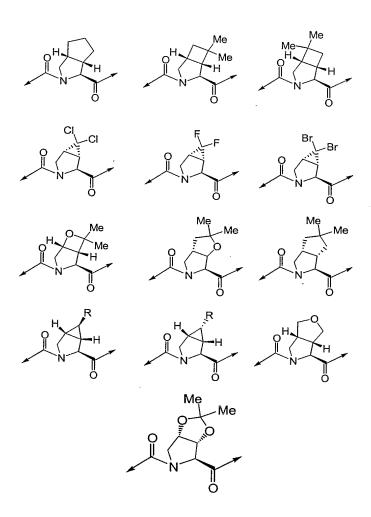
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In <u>c</u>, G and J are independently selected from the group consisting of  $(CH_2)_p$ ,  $(CHR)_p$ ,  $(CHR-CHR')_p$ , and  $(CRR')_p$ ; A and M are independently selected from the

group consisting of O, S, SO<sub>2</sub>, NR,  $(CH_2)_p$ ,  $(CHR)_p$ ,  $(CHR-CHR')_p$ , and  $(CRR')_p$ ; and Q is CH<sub>2</sub>, CHR, CRR', NH, NR, O, S, SO<sub>2</sub>, NR,  $(CH_2)_p$ ,  $(CHR)_p$ , and  $(CRR')_p$ . Preferred definitions for  $\underline{c}$  are:

When the cyclic ring structure is depicted as:

5 its most preferred illustrations are as follows:



Some of the still preferred moieties for the unit:

shown above, are:

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Unless defined otherwise, all technical and scientific terms used herein have the same meaning as is commonly understood by one of skill in the art to which this invention belongs. Thus, for example, the term alkyl (including the alkyl portions of alkoxy) refers to a monovalent group derived from a straight or

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branched chain saturated hydrocarbon by the removal of a single atom having from 1 to 8 carbon atoms, preferably from 1 to 6;

aryl – represents a carbocyclic group having from 6 to 14 carbon atoms and having at least one benzenoid ring, with all available substitutable aromatic carbon atoms of the carbocyclic group being intended as possible points of attachment. Preferred aryl groups include phenyl, 1-naphthyl, 2-naphthyl and indanyl, and especially phenyl and substituted phenyl;

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aralkyl – represents a moiety containing an aryl group linked vial a lower alkyl;

alkylaryl – represents a moiety containing a lower alkyl linked via an aryl group;

cycloalkyl – represents a saturated carbocyclic ring having from 3 to 8 carbon atoms, preferably 5 or 6, optionally substituted.

heterocyclic – represents, in addition to the heteroaryl groups defined below, saturated and unsaturated cyclic organic groups having at least one O, S and/or N atom interrupting a carbocyclic ring structure that consists of one ring or two fused rings, wherein each ring is 5-, 6- or 7-membered and may or may not have double bonds that lack delocalized pi electrons, which ring structure has from 2 to 8, preferably from 3 to 6 carbon atoms, e.g., 2- or 3-piperidinyl, 2- or 3-piperazinyl, 2- or 3-morpholinyl, or 2- or 3-thiomorpholinyl;

halogen - represents fluorine, chlorine, bromine and iodine;

heteroaryl – represents a cyclic organic group having at least one O, S and/or N atom interrupting a carbocyclic ring structure and having a sufficient number of delocalized pi electrons to provide aromatic character, with the aromatic heterocyclyl group having from 2 to 14, preferably 4 or 5 carbon atoms, e.g., 2-, 3- or 4-pyridyl, 2- or 3-furyl, 2- or 3-thienyl, 2-, 4- or 5-thiazolyl, 2- or 4-imidazolyl, 2-, 4- or 5-pyrimidinyl, 2-pyrazinyl, or 3- or 4-pyridazinyl, etc. Preferred heteroaryl groups are 2-, 3- and 4-pyridyl; such heteroaryl groups may also be optionally substituted. Additionally, unless otherwise specifically defined, as stated above, the term "substituted or unsubstituted" or "optionally substituted"

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refers to the subject moiety being optionally and chemically-suitably substituted with a moiety belonging to R<sup>12</sup> or R<sup>13</sup>. As used herein, "prodrug" means compounds that are drug precursors which, following administration to a patient, release the drug *in vivo* via some chemical or physiological process (e.g., a prodrug on being brought to the physiological pH or through enzyme action is converted to the desired drug form).

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Also included in the invention are tautomers, rotamers, enantiomers and other optical isomers, as well as prodrugs, of compounds of Formula I, as well as pharmaceutically acceptable salts, solvates and derivatives thereof.

A further feature of the invention is pharmaceutical compositions containing as active ingredient a compound of Formula I (or its salt, solvate or isomers) together with a pharmaceutically acceptable carrier or excipient.

The invention also provides methods for preparing compounds of Formula I, as well as methods for treating diseases such as, for example, HCV, AIDS (Acquired Immune Deficiency Syndrome), and related disorders. The methods for treating comprise administering to a patient suffering from said disease or diseases a therapeutically effective amount of a compound of Formula I, or pharmaceutical compositions comprising a compound of Formula I.

Also disclosed is the use of a compound of Formula I for the manufacture of a medicament for treating HCV, AIDS, and related disorders.

Also disclosed is a method of treatment of a hepatitis C virus associated disorder, comprising administering an effective amount of one or more of the inventive compounds.

Also disclosed is a method of modulating the activity of hepatitis C virus (HCV) protease, comprising contacting HCV protease with one or more inventive compounds.

Also disclosed is a method of treating, preventing, or ameliorating one or more symptoms of hepatitis C, comprising administering an effective amount of one or more of the inventive compounds. The HCV protease is the NS3 or NS4a

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protease. The inventive compounds inhibit such protease. They also modulate the processing of hepatitis C virus (HCV) polypeptide.

## **Detailed description of preferred embodiments**

In one embodiment, the present invention discloses compounds of Formula I as inhibitors of HCV protease, especially the HCV NS3/NS4a serine protease, or a pharmaceutically acceptable derivative thereof, where the various definitions are given above.

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Representative compounds of the invention which exhibit excellent HCV protease inhibitory activity are listed below in **Tables 1 to 5** along with their activity (ranges of Ki\* values in nanomolar, nM). Several compounds as well as additional compounds are additionally disclosed in the Claims.

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Table 1: Compounds and HCV protease continuous assay results

Compound from Example No.	Ki* Range
1	С
2	С
2 3	C
4	С
5	C C C C
6	С
7	С
8	C
9	С
10	C C C C C
11	С
12	С
13	С
. 14	С
15	C
16	C
17	C
18	C C C C
19	С
20	С
21	C C C
22	С
23	С
23 24	С
25	C C C C C
26	С
27	С
28	С
29	С
30	
31	С
32	C C C C C C
33	C
32 33 34	C
35	C
36 37	C
37	C

38	С
39	С
40	С
41	C C C C
42	С
43	С
44	С
45	С
46	C C C
47	С
48	C C C C C
49	C ·
50	С
51	. C
52	C
53	C
54	C
55	C
56	C
57	<u> </u>
58	C C
59	C
60	0
61	C C C C
62	0
63	<u> </u>
64	0
64 65	<u>C</u>
	<u> </u>
66	С
67	С
68	В
69	C
70	C B
71	В
72	C
73	В
74	C
75	С
76	Α
77	В
78	A
79	С
80	A
81	С

82	A
83	В
84	C
85	C
86	В
87	В
88	A
89	В
90	C C C
91	<u>C</u>
92	
93	C C C
94	С
95	C
96	C C
97	
98	В
99	В
100	A
101	A
102	С
103	C C
104	С
105	C
106	С
107	В
108	A
109	A
110	A
111	A
112	A
113	В
113	A
114	В
115	
116	A
117	A
118	A
119	A
120 121	A
121	В
122	В
123	A
124	В
125	В

126	В
127	A
128	A
129	A
130	B B
130	
131	A
132	A
133	A
134	В
135	A
136	A
137	A
138	A
139	A
140	B.
141	. A
142	A
143	В
144	В
145	C
146	A
147	A
148	В
149	A
150	A
151	A
152	A
153	A
154	A
155	B
156	В
150	
157	В
158	С
159	В
160	A A
161	Α
162	A C
163	
164	Α
165	C
166	В
167	A
168	С
169	В
169	

170	В
171	A
172	A
173	Ä
173	A
174	
175	A
176	В
177	В
178	A
179	A
180	В
181	<u>A</u>
182	В
183	A
184	Α
185	Α
186	A
187	Α
188	A
189	B
190	В
191	В
192	Α
193	Α
194	В
195	A
196	В
197	Α
198	Α
199	Α
200	Α
201	В
202	Α
203	В
204	В
205	В
206	В
207	В
208	A
209	A
210	A
210	Ä
211	A
212	B B
213	Ď

244	
214	В .
215	В
216	В
217	С
218	Α
219	Α
220	A
221	A
222	A
223	В
223 224	C
225	С
226	Α
227	A
228	C
229	A
230	
230	A
	A
232	C
233	C
234	С
235	С
236	В
237	C
238	A
239	C
240	Α
241	С
242	В
243	С
244	В
245	С
246	В
247	A
248	
249	A C
250	
251	В
251	C
252	
253 254	C
254	В
255	В
256	A C
257	C

258	^ !
	Α
259	A
260	С
261	С
262	А
263	В
264	В
265	С
266	В
267	A
268	С
269	A
270	С
271	
272	A C
273	С
274	С
275	C
276	A
277	В
278	A
279	В
280	A
281	C
282	0
283	C C C
284	0
285	<u> </u>
	<u> </u>
286	C C
287	
288	В
289	В
290	C C
291	
292	<u>С</u> С
293	C
294	C
295	С
296	B C C
297	C
298	
299	В
300	В
301	С

302	
	С
303	В
304	С
305	С
306	С
307	В
308	В
309	С
310	С
311	С
312	С
313	В
314	Α
315	В
316	В
317	A
318	A
319	A
320	^
320	A C
321	<u>C</u>
322	С
323	С
324	С
325	Α
326	A C
327	
328	В
329	В
330	Α
331	Α
332	Α
333	В
334	В
335	В
336	
337	A
338	A A C
339	Δ
340	A C C C
341	0
341	C
342	<u> </u>
343	A C
344	Ü
345	С

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346	
	C
347	В
348	В
349	С
350	С
351	С
352	С
353	С
354	С
355	С
356	Α
357	Α
358	С
359	Α
360	В
361	В
362	С

HCV continuous assay Ki\* range:

Category A = 1-100 nM; Category B = 101-1,000 nM; Category C >1000 nM.

Some of the types of the inventive compounds and methods of synthesizing the various types of the inventive compounds of Formula I are listed below, then schematically described, followed by the illustrative Examples.

 $\begin{array}{l} (\mathsf{R} = \mathsf{t\text{-}butyl}, \, \mathsf{X} = \mathsf{NH}_2) \\ (\mathsf{R} = \mathsf{lsobutyl}, \, \mathsf{X} = \mathsf{NH}_2) \\ (\mathsf{R} = \mathsf{t\text{-}butyl}, \, \mathsf{X} = \mathsf{OH}) \\ (\mathsf{R} = \mathsf{Trichloroethyl}, \, \mathsf{X} = \mathsf{OH}) \end{array}$ 

$$Me \longrightarrow \begin{array}{c} H & O \\ \hline \\ O & \\ \hline \\ O & \\ \end{array}$$

$$(X = O^{t}Bu)$$

(X = OH)(X = NHMe)

Me 
$$X = OH$$
  
 $X = OH$   
 $X = O^{\dagger}Bu$   
 $X = OH_2$ 

 $(X = NMe_2)$ 

$$(X = O^tBu)$$

$$(X = OH)$$

$$(X = NH_2)$$

$$(X = NMe_2)$$

$$(X = O^tBu)$$

$$(X = OH)$$

$$(X = NH_2)$$

$$(X = NMe_2)$$

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CI CI NH2

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Depending upon their structure, the compounds of the invention may form pharmaceutically acceptable salts with organic or inorganic acids, or organic or inorganic bases. Examples of suitable acids for such salt formation are hydrochloric, sulfuric, phosphoric, acetic, citric, malonic, salicylic, malic, fumaric, succinic, ascorbic, maleic, methanesulfonic and other mineral and carboxylic acids well known to those skilled in the art. For formation of salts with bases,

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suitable bases are, for example, NaOH, KOH, NH<sub>4</sub>OH, tetraalkylammonium hydroxide, and the like.

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In another embodiment, this invention provides pharmaceutical compositions comprising the inventive peptides as an active ingredient. The pharmaceutical compositions generally additionally comprise a pharmaceutically acceptable carrier diluent, excipient or carrier (collectively referred to herein as carrier materials). Because of their HCV inhibitory activity, such pharmaceutical compositions possess utility in treating hepatitis C and related disorders.

In yet another embodiment, the present invention discloses methods for preparing pharmaceutical compositions comprising the inventive compounds as an active ingredient. In the pharmaceutical compositions and methods of the present invention, the active ingredients will typically be administered in admixture with suitable carrier materials suitably selected with respect to the intended form of administration, i.e. oral tablets, capsules (either solid-filled, semi-solid filled or liquid filled), powders for constitution, oral gels, elixirs, dispersible granules, syrups, suspensions, and the like, and consistent with conventional pharmaceutical practices. For example, for oral administration in the form of tablets or capsules, the active drug component may be combined with any oral non-toxic pharmaceutically acceptable inert carrier, such as lactose, starch, sucrose, cellulose, magnesium stearate, dicalcium phosphate, calcium sulfate, talc, mannitol, ethyl alcohol (liquid forms) and the like. Moreover, when desired or needed, suitable binders, lubricants, disintegrating agents and coloring agents may also be incorporated in the mixture. Powders and tablets may be comprised of from about 5 to about 95 percent inventive composition. Suitable binders include starch, gelatin, natural sugars, corn sweeteners, natural and synthetic gums such as acacia, sodium alginate, carboxymethylcellulose, polyethylene glycol and waxes. Among the lubricants there may be mentioned for use in these dosage forms, boric acid, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrants include starch, methylcellulose, guar gum and the like.

Sweetening and flavoring agents and preservatives may also be included

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where appropriate. Some of the terms noted above, namely disintegrants, diluents, lubricants, binders and the like, are discussed in more detail below.

Additionally, the compositions of the present invention may be formulated in sustained release form to provide the rate controlled release of any one or more of the components or active ingredients to optimize the therapeutic effects, i.e. HCV inhibitory activity and the like. Suitable dosage forms for sustained release include layered tablets containing layers of varying disintegration rates or controlled release polymeric matrices impregnated with the active components and shaped in tablet form or capsules containing such impregnated or encapsulated porous polymeric matrices.

Liquid form preparations include solutions, suspensions and emulsions. As an example may be mentioned water or water-propylene glycol solutions for parenteral injections or addition of sweeteners and pacifiers for oral solutions, suspensions and emulsions. Liquid form preparations may also include solutions for intranasal administration.

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Aerosol preparations suitable for inhalation may include solutions and solids in powder form, which may be in combination with a pharmaceutically acceptable carrier such as inert compressed gas, e.g. nitrogen.

For preparing suppositories, a low melting wax such as a mixture of fatty acid glycerides such as cocoa butter is first melted, and the active ingredient is dispersed homogeneously therein by stirring or similar mixing. The molten homogeneous mixture is then poured into convenient sized molds, allowed to cool and thereby solidify.

Also included are solid form preparations which are intended to be converted, shortly before use, to liquid form preparations for either oral or parenteral administration. Such liquid forms include solutions, suspensions and emulsions.

The compounds of the invention may also be deliverable transdermally. The transdermal compositions may take the form of creams, lotions, aerosols

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and/or emulsions and can be included in a transdermal patch of the matrix or reservoir type as are conventional in the art for this purpose.

Preferably the compound is administered orally, intravenously or subcutaneously.

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Preferably, the pharmaceutical preparation is in a unit dosage form. In such form, the preparation is subdivided into suitably sized unit doses containing appropriate quantities of the active components, e.g., an effective amount to achieve the desired purpose.

The quantity of the inventive active composition in a unit dose of preparation may be generally varied or adjusted from about 1.0 milligram to about 1,000 milligrams, preferably from about 1.0 to about 950 milligrams, more preferably from about 1.0 to about 500 milligrams, and typically from about 1 to about 250 milligrams, according to the particular application. The actual dosage employed may be varied depending upon the patient's age, sex, weight and severity of the condition being treated. Such techniques are well known to those skilled in the art.

Generally, the human oral dosage form containing the active ingredients can be administered 1 or 2 times per day. The amount and frequency of the administration will be regulated according to the judgment of the attending clinician. A generally recommended daily dosage regimen for oral administration may range from about 1.0 milligram to about 1,000 milligrams per day, in single or divided doses.

Some useful terms are described below:

Capsule - refers to a special container or enclosure made of methyl cellulose, polyvinyl alcohols, or denatured gelatins or starch for holding or containing compositions comprising the active ingredients. Hard shell capsules are typically made of blends of relatively high gel strength bone and pork skin gelatins. The capsule itself may contain small amounts of dyes, opaquing agents, plasticizers and preservatives.

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Tablet- refers to a compressed or molded solid dosage form containing the active ingredients with suitable diluents. The tablet can be prepared by compression of mixtures or granulations obtained by wet granulation, dry granulation or by compaction.

Oral gel- refers to the active ingredients dispersed or solubilized in a hydrophillic semi-solid matrix.

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Powder for constitution refers to powder blends containing the active ingredients and suitable diluents which can be suspended in water or juices.

Diluent - refers to substances that usually make up the major portion of the composition or dosage form. Suitable diluents include sugars such as lactose, sucrose, mannitol and sorbitol; starches derived from wheat, corn, rice and potato; and celluloses such as microcrystalline cellulose. The amount of diluent in the composition can range from about 10 to about 90% by weight of the total composition, preferably from about 25 to about 75%, more preferably from about 30 to about 60% by weight, even more preferably from about 12 to about 60%.

Disintegrant - refers to materials added to the composition to help it break apart (disintegrate) and release the medicaments. Suitable disintegrants include starches; "cold water soluble" modified starches such as sodium carboxymethyl starch; natural and synthetic gums such as locust bean, karaya, guar, tragacanth and agar; cellulose derivatives such as methylcellulose and sodium carboxymethylcellulose; microcrystalline celluloses and cross-linked microcrystalline celluloses such as sodium croscarmellose; alginates such as alginic acid and sodium alginate; clays such as bentonites; and effervescent mixtures. The amount of disintegrant in the composition can range from about 2 to about 15% by weight of the composition, more preferably from about 4 to about 10% by weight.

Binder - refers to substances that bind or "glue" powders together and make them cohesive by forming granules, thus serving as the "adhesive" in the formulation. Binders add cohesive strength already available in the diluent or bulking agent. Suitable binders include sugars such as sucrose; starches derived

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from wheat, corn rice and potato; natural gums such as acacia, gelatin and tragacanth; derivatives of seaweed such as alginic acid, sodium alginate and ammonium calcium alginate; cellulosic materials such as methylcellulose and sodium carboxymethylcellulose and hydroxypropylmethylcellulose; polyvinylpyrrolidone; and inorganics such as magnesium aluminum silicate. The amount of binder in the composition can range from about 2 to about 20% by

weight of the composition, more preferably from about 3 to about 10% by weight,

even more preferably from about 3 to about 6% by weight.

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Lubricant - refers to a substance added to the dosage form to enable the tablet, granules, etc. after it has been compressed, to release from the mold or die by reducing friction or wear. Suitable lubricants include metallic stearates such as magnesium stearate, calcium stearate or potassium stearate; stearic acid; high melting point waxes; and water soluble lubricants such as sodium chloride, sodium benzoate, sodium acetate, sodium oleate, polyethylene glycols and d'Ileucine. Lubricants are usually added at the very last step before compression, since they must be present on the surfaces of the granules and in between them and the parts of the tablet press. The amount of lubricant in the composition can range from about 0.2 to about 5% by weight of the composition, preferably from about 0.5 to about 2%, more preferably from about 0.3 to about 1.5% by weight.

Glident - material that prevents caking and improve the flow characteristics of granulations, so that flow is smooth and uniform. Suitable glidents include silicon dioxide and talc. The amount of glident in the composition can range from about 0.1% to about 5% by weight of the total composition, preferably from about 0.5 to about 2% by weight.

Coloring agents - excipients that provide coloration to the composition or the dosage form. Such excipients can include food grade dyes and food grade dyes adsorbed onto a suitable adsorbent such as clay or aluminum oxide. The amount of the coloring agent can vary from about 0.1 to about 5% by weight of the composition, preferably from about 0.1 to about 1%.

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Bioavailability - refers to the rate and extent to which the active drug ingredient or therapeutic moiety is absorbed into the systemic circulation from an administered dosage form as compared to a standard or control.

Conventional methods for preparing tablets are known. Such methods include dry methods such as direct compression and compression of granulation produced by compaction, or wet methods or other special procedures.

Conventional methods for making other forms for administration such as, for example, capsules, suppositories and the like are also well known.

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Another embodiment of the invention discloses the use of the pharmaceutical compositions disclosed above for treatment of diseases such as, for example, hepatitis C and the like. The method comprises administering a therapeutically effective amount of the inventive pharmaceutical composition to a patient having such a disease or diseases and in need of such a treatment.

In yet another embodiment, the compounds of the invention may be used for the treatment of HCV in humans in monotherapy mode or in a combination therapy (e.g., dual combination, triple combination etc.) mode such as, for example, in combination with antiviral and/or immunomodulatory agents. Examples of such antiviral and/or immunomodulatory agents include Ribavirin (from Schering-Plough Corporation, Madison, New Jersey) and Levovirin<sup>TM</sup> (from ICN Pharmaceuticals, Costa Mesa, California), VP 50406<sup>TM</sup> (from Viropharma, Incorporated, Exton, Pennsylvania), ISIS 14803<sup>TM</sup> (from ISIS Pharmaceuticals, Carlsbad, California), Heptazyme<sup>TM</sup> (from Ribozyme Pharmaceuticals, Boulder, Colorado), VX 497<sup>TM</sup> (from Vertex Pharmaceuticals, Cambridge, Massachusetts), Thymosin<sup>TM</sup> (from SciClone Pharmaceuticals, San Mateo, California), Maxamine<sup>TM</sup> (Maxim Pharmaceuticals, San Diego, California), mycophenolate mofetil (from Hoffman-LaRoche, Nutley, New Jersey), interferon (such as, for example, interferon-alpha, PEG-interferon alpha conjugates) and the like. "PEGinterferon alpha conjugates" are interferon alpha molecules covalently attached to a PEG molecule. Illustrative PEG-interferon alpha conjugates include interferon

alpha-2a (Roferon<sup>TM</sup>, from Hoffman La-Roche, Nutley, New Jersey) in the form of

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pegylated interferon alpha-2a (e.g., as sold under the trade name Pegasys<sup>TM</sup>), interferon alpha-2b (Intron<sup>TM</sup>, from Schering-Plough Corporation) in the form of pegylated interferon alpha-2b (e.g., as sold under the trade name PEG-Intron<sup>TM</sup>), interferon alpha-2c (Berofor Alpha<sup>TM</sup>, from Boehringer Ingelheim, Ingelheim, Germany) or consensus interferon as defined by determination of a consensus sequence of naturally occurring interferon alphas (Infergen<sup>TM</sup>, from Amgen, Thousand Oaks, California).

As stated earlier, the invention includes tautomers, rotamers, enantiomers and other stereoisomers of the inventive compounds also. Thus, as one skilled in the art appreciates, some of the inventive compounds may exist in suitable isomeric forms. Such variations are contemplated to be within the scope of the invention.

Another embodiment of the invention discloses a method of making the compounds disclosed herein. The compounds may be prepared by several techniques known in the art. Representative illustrative procedures are outlined in the following reaction schemes. It is to be understood that while the following illustrative schemes describe the preparation of a few representative inventive compounds, suitable substitution of any of both the natural and unnatural amino acids will result in the formation of the desired compounds based on such substitution. Such variations are contemplated to be within the scope of the invention.

Abbreviations which are used in the descriptions of the schemes, preparations and the examples that follow are:

THF: Tetrahydrofuran

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25 DMF: N,N-Dimethylformamide

EtOAc: Ethyl acetate

AcOH: Acetic acid

HOOBt: 3-Hydroxy-1,2,3-benzotriazin-4(3H)-one

EDCI: 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride

30 NMM: N-Methylmorpholine

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ADDP: 1,1'-(Azodicarbobyl)dipiperidine

DEAD: Diethylazodicarboxylate

MeOH: Methanol

EtOH: Ethanol

5 Et<sub>2</sub>O: Diethyl ether

DMSO: Dimethylsulfoxide

HOBt: N-Hydroxybenzotriazole

PyBrOP: Bromo-tris-pyrrolidinophosphonium hexafluorophosphate

DCM: Dichloromethane

10 DCC: 1,3-Dicyclohexylcarbodiimide

TEMPO: 2,2,6,6-Tetramethyl-1-piperidinyloxy

Phg: Phenylglycine

Chg: Cyclohexylglycine

Bn: Benzyl

15 Bzl: Benzyl

Et: Ethyl

Ph: Phenyl

iBoc: isobutoxycarbonyl

iPr: isopropyl

20 <sup>t</sup>Bu or Bu<sup>t</sup>: tert-Butyl

Boc: tert-Butyloxycarbonyl

Cbz: Benzyloxycarbonyl

Cp: Cylcopentyldienyl

Ts: p-toluenesulfonyl

25 Me: Methyl

HATU: O-(7-azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium

hexafluorophosphate

DMAP: 4-N,N-Dimethylaminopyridine

Bop: Benzotriazol-1-yl-oxy-tris(dimethylamino)hexafluorophosphate

**General Preparative Schemes:** 

The following schemes describe the methods of synthesis of intermediate building blocks:

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## **SCHEME 5**

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# **SCHEME 7**

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BochN 
$$\stackrel{\bullet}{\downarrow}$$
 OH  $\stackrel{\bullet}{\downarrow}$  CH<sub>3</sub>ONHCH<sub>3</sub>.HCI BochN  $\stackrel{\bullet}{\downarrow}$  CH<sub>3</sub> LiAiH<sub>4</sub>

BochN  $\stackrel{\bullet}{\downarrow}$  OH  $\stackrel{\bullet}{\downarrow}$  CH<sub>3</sub>ONHCH<sub>3</sub>.HCI BochN  $\stackrel{\bullet}{\downarrow}$  OH  $\stackrel{\bullet}{\downarrow}$  CN AcCI, CH<sub>3</sub>OH

 $\stackrel{\bullet}{\downarrow}$  OH  $\stackrel{\bullet}{\downarrow}$  COOCH<sub>3</sub> 1. Boc<sub>2</sub>O  $\stackrel{\bullet}{\downarrow}$  BochN  $\stackrel{\bullet}{\downarrow}$  COOH  $\stackrel{\bullet}{\downarrow}$  HOOBt

 $\stackrel{\bullet}{\downarrow}$  OH  $\stackrel{\bullet}{\downarrow}$  COOCH<sub>3</sub> 2. LiOH, THF/H<sub>2</sub>O  $\stackrel{\bullet}{\downarrow}$  OH  $\stackrel{\bullet}{\downarrow}$  COOH  $\stackrel{\bullet}{\downarrow}$  CONH<sub>2</sub>

where R =  $\stackrel{\bullet}{\downarrow}$   $\stackrel{$ 

## SCHEME 11

$$\begin{array}{c|c} & & LiN(SiMe_3)_2 \\ \hline N & CO_2Me & \hline Mel,THF \\ BOc & -78^0 \longrightarrow -20^0C & BOc \\ \end{array}$$

# SCHEME 13

$$H_2N$$
  $SMe$   $Boc_2O$   $BocNH$   $SMe$   $Et_3N, CH_2CI_2$ 

# **SCHEME 14**

HO 
$$\longrightarrow$$
 CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Cl  $\longrightarrow$  TsO  $\longrightarrow$  Cs<sub>2</sub>CO<sub>3</sub> Lil Acetone

## **SCHEME 15**

## **SCHEME 16**

**SCHEME 17** 

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## SCHEME 19

BocHN,, 
$$CO_2H$$
 $H_2$  (50 psi)

Rh on C, 7 days

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### Preparation of Intermediates:

### **Preparative Example 1**

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Step A: Compound (1.1)

To a stirred solution of Compound (1.08)(3.00 g, 12.0 mmol) (S. L. Harbeson *et al.* <u>J.Med.Chem.</u> <u>37</u> No.18 (1994) 2918-2929) in DMF (15 mL) and CH<sub>2</sub>Cl<sub>2</sub> (15 mL) at -20°C was added HOOBt (1.97 g, 12.0 mmol), *N*-methyl morpholine (4.0 mL, 36.0 mmol) and EDCl (2.79 g, 14.5 mmol) and stirred for 10 minutes, followed by addition of HCl·H<sub>2</sub>N-Gly-OBn (2.56 g, 13.0 mmol). The resulting solution was stirred at -20°C for 2 hrs, kept refrigerated overnight and then concentrated to dryness, followed by dilution with EtOAc (150 mL). The EtOAc solution was then washed twice with saturated NaHCO<sub>3</sub>, H<sub>2</sub>O, 5% H<sub>3</sub>PO<sub>4</sub>, brine, dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated to dryness to give the Compound (1.09) (4.5 g, 94%). LRMS m/z MH<sup>+</sup>= 395.1.

Step B: Compound (1.1)

A solution of Compound (1.09) (7.00 g, 17.8 mmol) in absolute ethanol (300 mL) was stirred at room temperature under a hydrogen atmosphere in the presence of Pd-C (300 mg, 10%). The reaction progress was monitored by tlc. After 2 h, the mixture was filtered through a celite pad and the resulting solution was concentrated in vacuo to give Compound (1.1) (5.40 g, quantitative). LRMS m/z MH<sup>+</sup>= 305.1.

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### **Preparative Example 2**

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### Step A Compound (1.3)

Bochn 
$$OH + H_2N$$
  $OH + H_2N$   $OH + H_2N$ 

A mixture of Compound (1.1) from Preparative Example 1, Step B above (1 eq.), Compound (1.2) ( from Novabiochem, Catalog No. 04-12-5147) (1.03 eq.), HOOBt (1.03 eq.), N-methylmorpholine (2.2 eq.), and dimethylformamide (70 mL/g) was stirred at -20°C. EDCI (1.04 eq.) was added and the reaction stirred for 48 hr. The reaction mixture was poured into 5% aqueous KH<sub>2</sub>PO<sub>4</sub> and extracted with ethyl acetate (2 x). The combined organics were washed with cold 5% aqueous K<sub>2</sub>CO<sub>3</sub>, then 5% aqueous KH<sub>2</sub>PO<sub>4</sub>, then brine, and the organic layer was dried over anhydrous MgSO<sub>4</sub>. The mixture was filtered, then evaporated and the filtrate dried under vacuum, the residue was triturated with Et<sub>2</sub>O-hexane, and filtered to leave the title compound (1.3)(86% yield), C<sub>2</sub>5H<sub>3</sub>9N<sub>3</sub>O<sub>7</sub> (493.60), mass spec. (FAB) M+1 = 494.3.

#### Step B Compound (1.4)

BochN 
$$\stackrel{OH}{\longrightarrow}$$
  $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{HCI}{\longrightarrow}$   $\stackrel{OH}{\longrightarrow}$   $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{COOBu^t}{\longrightarrow}$   $\stackrel{(1.4)}{\longrightarrow}$ 

Compound (1.3) from Preparative Example 2, Step A (3.0 g) was treated with 4 N HCl/dioxane (36 mL) and stirred at room temperature for 7 min. The mixture was poured into 1.5 L cold (5°C) hexane and stirred, then allowed to set cold for 0.5 hr. The mixture was suction-filtered in a dry atmosphere, and the collected solid was further dried to afford the title compound (1.4) (2.3 g, 88%)

yield), C<sub>20</sub>H<sub>31</sub>N<sub>3</sub>O<sub>5</sub>·HCl, H<sup>1</sup> NMR (DMSO-d<sub>6</sub>/NaOD) δ 7.38 (m, 5H), 5.25 (m, 1H), 4.3-4.1 (m, 1H), 3.8 (m, 2H), 3.4-3.3 (m, obscured by D<sub>2</sub>O), 1.7-1.1 (m, 4H), 1.35 (s, 9H), 0.83 (m, 3H).

## **Preparative Example 3**

## 5 <u>Compound (1.5)</u>

BochN 
$$\stackrel{OH}{\longrightarrow}$$
  $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{OODBu^t}{\longrightarrow}$   $\stackrel{BochN}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{OODBu^t}{\longrightarrow}$   $\stackrel{(1.5)}{\longrightarrow}$ 

Compound (1.3) from Preparative Example 2, Step A, was treated in essentially the same manner as in Preparative Example 7, Step A below to afford Compound (1.5).

## **Preparative Example 4**

## Compound (1.6)

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BocHN 
$$\stackrel{O}{\longrightarrow}$$
  $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{N}{\longrightarrow}$   $\stackrel{N}{\longrightarrow$ 

Compound (1.5) from Preparative Example 3, was treated in essentially the same manner as in Preparative Example 2, Step B, to afford Compound (1.6).

### **Preparative Example 5**

## Step A Compound (2.09)

BocHN OH BocHN 
$$CH_3$$
  $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$ 

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To a solution of dimethylamine hydrochloride (1.61 g, 19.7 mmol), *N*-Boc-phenylglycine, Compound (2.08)(4.50 g, 17.9 mmol, Bachem Co. # A-2225), HOOBt (3.07 g, 18.8 mmol) and EDCI (4.12 g, 21.5 mmol) in anhydrous DMF (200 mL) and CH<sub>2</sub>Cl<sub>2</sub> (150 mL) at -20°C was added NMM (5.90 mL, 53.7 mmol).

After being stirred at this temperature for 30 min, the reaction mixture was kept in a freezer overnight (18 h). It was then allowed to warm to rt, and EtOAc ( 450 mL), brine (100 mL) and 5% H<sub>3</sub>PO<sub>4</sub> (100 mL) were added. After the layers were separated, the organic layer was washed with 5% H<sub>3</sub>PO<sub>4</sub> (100 mL), saturated aqueous sodium bicarbonate solution (2 X 150 mL), water (150 mL), and brine (150 mL), dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo to afford Compound (2.09) (4.86 g) as a white solid, which was used without further purification.

Step B Compound (2.1)

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BocHN 
$$CH_3$$
  $HCI$   $CH_3$   $H_2N$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$   $CH_3$ 

Compound (2.09) from Preparative Example 5, Step A (4.70 g, crude) was dissolved in 4 N HCI (60 mL, 240 mmol) and the resulting solution was stirred at room temperature. The progress of the reaction was monitored by TLC. After 4 h, the solution was concentrated in vacuo to yield Compound (2.1) as a white solid which was used in the next reaction without further purification. LRMS m/z MH<sup>+</sup>= 179.0.

#### Preparative Example 6

Step A Compound (2.2)

In essentially the same manner as Preparative Example 2, Step A. substituting phenylglycine N,N-dimethylamide hydrochloride in place of phenylglycine *t*-butyl ester hydrochloride, Compound (2.2) was prepared mass spec. (FAB) M+1 = 465.3.

Step B Compound (2.3)

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BochN 
$$\stackrel{OH}{\longrightarrow}$$
  $\stackrel{H}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{HCI}{\longrightarrow}$   $\stackrel{OH}{\longrightarrow}$   $\stackrel{H}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{CONMe_2}{\longrightarrow}$  (2.2)

Compound (2.2) from Step A (1.85 g) was reacted with 4 N HCl/dioxane (50 mL) at room temperature for 1 hr. The mixture was evaporated under vacuum in a 20°C water bath, triturated under isopropyl ether, filtered, and dried to afford Compound (2.3) (1.57 g, 98% yield), C<sub>18</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>·HCl, mass spec. (FAB) M+1 = 365.3

### **Preparative Example 7**

Step A Compound (2.4)

BocHN 
$$\stackrel{OH}{\longrightarrow}$$
  $\stackrel{H}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{Ph}{\longrightarrow}$   $\stackrel{O}{\longrightarrow}$   $\stackrel{O}{$ 

A solution of Compound (2.2) from Preparative Example 5, Step A (2.0 g) in dichloromethane (60 mL) was treated with dimethylsulfoxide (3.0 mL) and 2,2-dichloroacetic acid (0.70 mL). The stirred mixture was cooled to 5°C and then added 1 M dicyclohexylcarbodiimide/ dichloromethane solution (8.5 mL). The cold

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bath was removed and the mixture stirred for 22 hr. Then added 2-propanol (0.5 mL), and stirred for an additional 1 hr. The mixture was filtered then washed with ice-cold 0.1 N NaOH (50mL), then ice-cold 0.1 N HCl (50 mL), then 5% aqueous KH2PO4, then saturated brine. The organic solution was dried over anhydrous magnesium sulfate, then filtered. The filtrate was evaporated, and chromatographed on silica gel, eluting with ethyl acetate to afford Compound (2.3) (1.87 g, 94% yield), C23H34N4O6, mass spec. (FAB) M+1 = 463.3.

Step B Compound (2.5)

BocHN 
$$\stackrel{\bigcirc}{\longrightarrow}$$
  $\stackrel{\bigcirc}{\longrightarrow}$   $\stackrel{\bigcirc}{\longrightarrow}$ 

In essentially the same manner as Preparative Example 2, Step B, Compound (2.5) was prepared.

### **Preparative Example 8**

Step A Compound (3.1)

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Cbz 
$$COOMe$$
  $Cbz$   $COOMe$   $Cbz$   $COOMe$   $Cbz$   $COOMe$ 

In a flask were combined N-Cbz-hydroxyproline methyl ester (available from Bachem Biosciences, Incorporated, King of Prussia, Pennsylvania), compound (3.01) (3.0 g), toluene (30 mL), and ethyl acetate (30 mL). The mixture was stirred vigorously, and then a solution of NaBr/water (1.28 g /5 mL) was added. To this was added 2,2,6,6-tetramethyl-1-piperidinyloxy free radical (TEMPO, 17 mg, from Aldrich Chemicals, Milwaukee, Wisconsin). The stirred mixture was cooled to 5°C and then was added a prepared solution of oxidant [commercially available bleach, Clorox® (18 mL), NaHCO3 (2.75 g) and water to make up 40

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mL] dropwise over 0.5 hr. To this was added 2-propanol (0.2 mL). The organic layer was separated, and the aqueous layer extracted with ethyl acetate. The organic extracts were combined, washed with 2% sodium thiosulfate, then saturated brine. The organic solution was dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated the filtrate under vacuum to leave a pale yellow gum suitable for subsequent reactions (2.9 g, 97% yield), C14H15NO<sub>5</sub> (277.28), mass spec. (FAB) M+1 = 278.1.

## Step B Compound (3.2).

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Compound (3.1) from Step A above (7.8 g) was dissolved in dichloromethane (100 mL), and cooled to 15°C. To this mixture was first added 1,3-propanedithiol (3.1 mL), followed by freshly distilled boron trifluoride etherate (3.7 mL). The mixture was stirred at room temperature for 18 h. While stirring vigorously, a solution of K2CO3/water (2 g / 30 mL)was carefully added, followed by saturated NaHCO3 (10 mL). The organic layer was separated from the aqueous layer (pH ~7.4), washed with water (10 mL), then brine. The organic solution was dried over anhydrous MgSO4, filtered, and evaporated under vacuum. The residue was chromatographed on silica gel, eluting with toluene, then a with a gradient of hexane-Et2O (2:3 to 0:1) to afford a brown oil (7.0 g, 68% yield), C17H21NO4S2 (367.48), mass spec. (FAB) M+1 =368.1.

Step C Compound (3.3)

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Cbz N COOMe 
$$\frac{1}{1000}$$
 Boc N COOMe  $\frac{1}{1000}$  (3.2)

A solution of compound (3.2) from Step B above (45 g) in acetonitrile (800 mL) at 20°C was treated with freshly distilled iodotrimethylsilane (53 mL) at once. The reaction was stirred for 30 min., then poured into a freshly prepared solution of di-t-butyldicarbonate (107 g), ethyl ether (150 mL), and diisopropylethylamine (66.5 mL). The mixture stirred for 30 min. more then was washed with hexane (2 x 500 mL). Ethyl acetate (1000 mL) was added to the lower acetonitrile layer, and then the layer was washed with 10% aqueous KH2PO4 (2 x 700 mL), and brine. The filtrate was evaporated under vacuum in a 25°C water bath, taken up in fresh ethyl acetate (1000 mL), and washed successively with 0.1 N HCl, 0.1 N NaOH, 10% aqueous KH2PO4, and brine. The organic solution was dried over anhydrous MgSO4, filtered, and evaporated under vacuum. The residue (66 g) was chromatographed on silica gel (2 kg), eluting with hexane (2 L), then Et2O/hexane (55:45, 2 L), then Et2O (2 L) to afford an orange gum which slowly crystallized on standing (28 g, 69% yield), C14H23NO4S2 (333.46), mass spec. (FAB) M+1 = 334.1.

Step D Compound (3.4)

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Boc N COOMe 
$$Boc$$
 N COOH  $Boc$  N  $Boc$ 

A solution of compound (3.3) from Step C above (11 g) in dioxane (150 mL) at 20°C was treated with 1N aqueous LiOH (47 mL) and stirred for 30 h. The mixture was concentrated under vacuum in a 30°C water bath to half volume. The remainder was diluted with water (300 mL), extracted with Et<sub>2</sub>O (2 x 200 mL).

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The aqueous layer was acidified to pH ~4 with 12 N HCl (3-4 mL), extracted with ethyl acetate, and washed with brine. The organic solution was dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated under vacuum to leave Compound (3.4) (8.1 g, 78%), C<sub>13</sub>H<sub>21</sub>NO<sub>4</sub>S<sub>2</sub> (319.44), mass spec. (FAB) M+1 = 320.1.

## Step E Compound (3.5).

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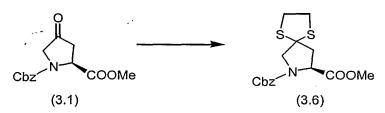
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Boc N COOMe HCI-H N COOMe
$$(3.3) (3.5)$$

To a solution of compound (3.3) from Step C above (1 g) in dioxane (5 mL), was added 4 N HCl-dioxane solution (50 mL). The mixture was stirred vigorously for 1 hr. The mixture was evaporated under vacuum in a 25°C water bath. The residue was triturated with  $Et_2O$ , and filtered to leave the title compound (0.76 g, 93% yield),  $C9H_15NO_2S_2\cdot HCl$  (269.81), mass spec. (FAB) M+1 = 234.0.

### Preparative Example 9

### Step A Compound (3.6)



Following essentially the same procedure of Preparative Example 8, Step B, substituting ethane dithiol for propane dithiol, compound (3.6) was obtained.

Step B Compound (3.7).

Following essentially the same procedure of Preparative Example 8, Step C, substituting compound (3.6) for compound (3.2), the product compound (3.7) was obtained.

## Step C Compound (3.8)

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Following essentially the same procedure of Preparative Example 8, Step D, substituting compound (3.7) for compound (3.3) the product compound (3.8) was obtained.

# 10 Step D Compound (3.9)

Following essentially the same procedure of Preparative Example 8, Step E, substituting compound (3.7) for compound (3.3) the product compound (3.9) was obtained.

## 15 **Preparative Example 10**

Step A Compound (4.1)

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In essentially the same manner as Preparative Example 2, Step A, Compound (4.1) was prepared C33H48N4O9S2 (708.89).

Step B Compound (4.2)

In essentially the same manner as Preparative Example 2, Step B, Compound (4.2) was prepared mass spec. (FAB) M+1 = 609.3.

Step C Compound (4.3)

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PCT/US03/01430

In essentially the same manner as Preparative Example 2, Step A, Compound (4.3) was prepared,  $C_{41}H_{61}N_5O_{10}S_2$  (708.89), mass spec. (FAB) M+1 = 709.3.

# Step D Compound (4.4)

In essentially the same manner as Preparative Example 7, Step A, Compound (4.4) was prepared.

# **Preparative Example 11**

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# Step A Compound (4.5)

In essentially the same manner as Preparative Example 2, Step A, Compound (4.5) was prepared.

# Step B, Compound (4.6)

In essentially the same manner as Preparative Example 2, Step B, Compound (4.6) was prepared.

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## Step C, Compound (4.7)

Compound (4.9) from Preparative Example 12, was reacted with Compound (4.6) from Step B above, in essentially the same manner as Preparative Example 2, Step A, to afford Compound (4.7).

# Step D, Compound (4.8)

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In essentially the same manner as Preparative Example 7, Step A, Compound (4.8) was prepared.

#### 10 Preparative Example 12

#### Compound (4.9)

A solution of L-cyclohexylglycine (4.02) (1.0 eq.), dimethylformamide (20 mL/g), and diisopropylethylamine (1.1 eq.) at 5°C is treated with isobutyl chloroformate (4.01) (1.1 eq.). The cold bath is removed and it is stirred for 6 hr. The reaction mixture is poured into 5% aqueous KH<sub>2</sub>PO<sub>4</sub> and extracted with ethyl

acetate (2 x). The combined organics are washed with cold 5% aqueous K<sub>2</sub>CO<sub>3</sub>, then 5% aqueous KH<sub>2</sub>PO<sub>4</sub>, then brine, and the organics are dried over anhydrous MgSO<sub>4</sub>. The mixture is filtered, the filtrate evaporated under vacuum, the residue chromatographed if necessary or else the residue triturated with Et<sub>2</sub>O-hexane, and filtered to leave the title compound (4.9), C<sub>13</sub>H<sub>23</sub>NO<sub>4</sub> (257.33).

#### **Preparative Example 13**

Compound (13.1)

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In essentially the same manner as Preparative Example 12, substituting L-O-benzylthreonine (13.02) (Wang *et al*, *J. Chem. Soc., Perkin Trans.* 1, (1997) No. 5, 621-624.) for L-cyclohexylglycine (4.02) Compound (13.1) is prepared C16H23NO5 (309.36), mass spec. (FAB) M+1 = 310.2.

#### **Preparative Example 14**

Compound (4.8) from Preparative Example 11, Step D (1.0 g) was reacted with a solution of anhydrous trifluoroacetic acid-dichloromethane (1:1, 50 mL) for 2 hr. The solution was diluted with xylene (100 mL) and evaporated under vacuum. The residue was triturated with Et<sub>2</sub>O, and filtered to leave the title compound (5.1) (0.9 g), C<sub>37</sub>H<sub>53</sub>N<sub>5</sub>O<sub>9</sub>S<sub>2</sub> (775.98), mass spec. (FAB) M+1 =776.5.

20 Step B Compound (5.2)

In essentially the same manner as Preparative Example 2, Step A, Compound (5.1) was reacted with ammonia (0.5 M 1,4-dioxane solution), to obtain the title compound (5.2)  $C_{37}H_{54}N_{6}O_{8}S_{2}$  (774.99), mass spec. (FAB) M+1 = 775.4.

## **Preparative Example 15**

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A mixture of Compound (5.1) from Preparative Example 14, Step A (0.15 g), N,N-dimethylamine (0.12 mL of 2 M THF solution), dimethylformamide (10 mL), and PyBrOP coupling reagent (0.11 g) was cooled to 5°C, then diisopropylethylamine (DIEA or DIPEA, 0.12 mL) was added. The mixture was stirred cold for 1 min., then stirred at room temperature for 6 hr. The reaction mixture was poured into cold 5% aqueous H<sub>3</sub>PO<sub>4</sub> (50 mL) and extracted with ethyl acetate (2 x). The combined organics were washed with cold 5% aqueous K<sub>2</sub>CO<sub>3</sub>, then 5% aqueous KH<sub>2</sub>PO<sub>4</sub>, then brine. The organic solution was dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated under vacuum. The residue was chromatographed on silica gel, eluting with MeOH-CH<sub>2</sub>Cl<sub>2</sub> to afford the title compound (5.3), C<sub>3</sub>9H<sub>5</sub>8N<sub>6</sub>O<sub>8</sub>S<sub>2</sub> (803.05), mass spec. (FAB) M+1 =803.5.

## **Preparative Example 16**

20 Step A Compound (6.2)

HO  
HO  

$$OCH_2Ph$$
 + Iboc-Chg-OH  
Iboc-Chg OCH<sub>2</sub>Ph  
(6.1) 4.9) (6.2)

In essentially the same manner as Preparative Example 2, Step A,
Compound (6.1) hydroxyproline benzyl ester hydrochloride was reacted with
Compound (4.9) from Preparative Example 12, to obtain the title compound (6.2),
C25H36N2O6 (460.56), mass spec. (FAB) M+1 = 461.2.

#### Step B Compound (6.3)

In essentially the same manner as Preparative Example 8, Compound (6.3) was prepared, C<sub>25</sub>H<sub>34</sub>N<sub>2</sub>O<sub>6</sub> (458.55), mass spec. (FAB) M+1 = 459.2.

#### Step C Compound (6.4)

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A mixture of Compound (6.3) from Step B (1 g), 10% Pd/C (0.05 g), and EtOH (100 mL) was stirred under 1 atm. H<sub>2</sub> for 6 hr. The mixture was filtered, and evaporated to dryness under vacuum to leave the title compound (6.4) (0.77 g),  $C_{18}H_{28}N_{2}O_{6}$  (368.42) mass spec. (FAB) M+1 = 369.2.

## **Preparative Example 17**

20 Step A Compound (7.1)

Compound (6.4) from Preparative Example 16, Step C, was reacted with Compound (2.3) from Preparative Example 6, Step B, in essentially the same manner as Preparative Example 2, Step A, to afford Compound (7.1),

<sup>5</sup> C36H54N6O9 (714.85), mass spec. (FAB) M+1 = 715.9.

## Step B Compound (7.2)

Compound (7.1) was reacted in essentially the same manner as Preparative Example 7, Step A, to afford Compound (7.2),  $C_{36}H_{52}N_{6}O_{9}$  (712.83), mass spec. (FAB) M+1 = 713.5.

# Step C Compound (7.3)

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Compound (7.2) from Step B above, was reacted in essentially the same manner as Preparative Example 8, Step B, with 1,4-butanedithiol, to obtain the title compound (7.3), C40H60N6O8S2 (817.07), mass spec. (FAB) M+1=817.5.

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Using the above-noted and herein-described procedures, the compounds in the attached **Tables 2 through 6** were prepared. As a general note to all the Tables (1 through 6) that are attached hereto as well as to the Examples and Schemes in this specification, any open-ended nitrogen atom with unfulfilled valence in the chemical structures in the Examples and Tables refers to NH, or in the case of a terminal nitrogen, -NH<sub>2</sub>. Similarly, any open-ended oxygen atom with unfulfilled valence in the chemical structures in the Examples and Tables refers to -OH and any open-ended carbon atom with unfilled valence is appropriately filled with -H.

#### Solid Phase Synthesis:

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### General procedure for solid-phase coupling reactions.

The synthesis was done in a reaction vessel which was constructed from a polypropylene syringe cartridge fitted with a polypropylene frit at the bottom. The Fmoc-protected amino acids were coupled under standard solid-phase techniques. Each reaction vessel was loaded with 100 mg of the starting Fmoc-Sieber resin (approximately 0.03 mmol). The resin was washed with 2 mL portions of DMF (2 times). The Fmoc protecting group was removed by treatment with 2 mL of a 20 % v/v solution of piperidine in DMF for 20 min. The resin was washed with 2 mL portions of DMF (4 times). The coupling was done in DMF (2 mL), using 0.1 mmol of Fmoc-amino acid, 0.1 mmol of HATU [ O-(7-azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate ] and 0.2 mmol of DIPEA (N,N-diisopropylethylamine). After shaking for 2 h, the reaction vessel was drained and the resin was washed with 2 mL portions of DMF (4 times). The coupling cycle was repeated with the next Fmoc-amino acid or capping group.

#### General procedure for solid-phase Dess-Martin oxidation.

The synthesis was conducted in a reaction vessel which was constructed from a polypropylene syringe cartridge fitted with a polypropylene frit at the bottom. Resin—bound hydroxy compound (approximately 0.03 mmol) was treated with a solution of 0.12 mmol of Dess-Martin periodinane and 0.12 mmol of t-BuOH

in 2 mL of DCM for 4 h. The resin was washed with 2 mL portions of a 20 % v/v solution of iPrOH in DCM, THF, a 50 % v/v solution of THF in water (4 times), THF (4 times) and DCM (4 times).

#### **Preparative Example 18**

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Preparation of N-Fmoc-2',3'-dimethoxyphenylglycine Compound (901)

To a solution of potassium cyanide (1.465 g, 22.5 mmol) and ammonium carbonate (5.045 g, 52.5 mmol) in water (15 mL) was added a solution of 2,3-dimethoxybenzaldehye **901A** (2.5 g, 15 mmol) in ethanol (15 mL). The reaction mixture was heated at 40 °C for 24 h. The volume of the solution was reduced to 10 mL by evaporating under reduced pressure. Concentrated hydrochloric acid (15 mL) was added and compound **901B** was obtained as a white precipitate. Compound **901B** was isolated by filtration (2.2 g, 9.3 mmol). Compound **901B** was dissolved in 10 % w/w aqueous sodium hydroxide solution (15 mL) and the resulting solution was heated under reflux for 24 h. Concentrated hydrochloric acid was added and the pH was adjusted to neutral (pH 7). The resulting solution containing compound **901C** was evaporated under reduced pressure. The

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residue was dissolved in 5 % w/w aqueous sodium bicarbonate solution (150 mL). The solution was cooled to 0 °C in an ice bath and 1,4-dioxane (30 mL) and a solution of 9-fluorenylmethyl succinimidyl carbonate (2.7 g, 8 mmol) in 1,4-dioxane (30 mL) was added at 0 °C. The reaction mixture was allowed to warm to room temperature and was stirred at room temperature for 24 h. 1,4-dioxane was evaporated under reduced pressure. The aqueous solution was washed with diethyl ether. Concentrated hydrochloric acid was added and the pH was adjusted to acidic (pH 1). Ethyl acetate was added the organic layer was washed with water and brine. The organic layer was dried over anhydrous sodium sulfate. The solvent was evaporated under reduced pressure to afford the desired compound **901** as a white foamy solid (3.44 g, 7.9 mmol). MS (LCMS-Electrospray) 434.1 MH<sup>+</sup>.

#### **Preparative Example 19**

Compound (801)

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**FmocHN** 

To a solution of N-Fmoc-phenylalanine **801A** (5 g, 12.9 mmol) in anhydrous DCM (22 mL) cooled to -30°C in a dry ice-acetone bath was added N-methylpyrrolidine (1.96 mL, 16.1 mmol) and methyl chloroformate (1.2 mL, 15.5 mmol) sequentially. The reaction mixture was stirred at -30°C for 1 h and a solution of N,O-dimethylhydroxylamine hydrochloride (1.51 g, 15.5 mol) and N-methylpyrrolidine (1.96 mL, 16.1 mmol) in anhydrous DCM (8 mL) was added.

801D

ÓH

**FmocHN** 

ÓН

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The reaction mixture was allowed to warm to room temperature and was stirred at room temperature overnight. Toluene was added and the organic layer was washed with dilute hydrochloric acid, aqueous sodium bicarbonate solution and brine. The organic layer was dried over anhydrous sodium sulfate. The solvent was evaporated under reduced pressure to afforded compound **801B** (4 g, 9.29 mmol).

To a solution of Red-Al (6.28 mL, 21.4 mmol) in anhydrous toluene (8 mL) cooled to -20°C in a dry ice-acetone bath was added a solution of compound **801B** (4 g, 9.29 mmol) in anhydrous toluene (12 mL). The reaction mixture was stirred at -20 °C for 1.5 h. The organic layer was washed with dilute hydrochloric acid, aqueous sodium bicarbonate solution and brine. The organic layer was dried over anhydrous sodium sulfate. The solvent was evaporated under reduced pressure and the crude product **801C** was used in the next reaction without further purification.

To a solution of compound **801C** (approx. 9.29 mmol) in hexane (15 mL) was added a solution of potassium cyanide (24 mg, 0.37 mmol) and tetrabutylammonium iodide (34 mg, 0.092 mmol) in water (4 mL) and acetone cyanohydrin (1.27 mL, 13.9 mmol) sequentially. The reaction mixture was stirred at room temperature for 24 h. Ethyl acetate was added and the organic layer was washed with water and brine. The organic layer was dried over anhydrous sodium sulfate. The solvent was evaporated under reduced pressure to afford compound **801D** (2.4 g, 6.03 mmol).

To a solution of compound **801D** (2.4 g, 6.03 mmol) in 1,4-dioxane (11 mL) was added concentrated hydrochloric acid (11 mL). The reaction mixture was heated at 80 °C for 3 h. Ethyl acetate (25 mL) and water (25 mL) was added. The organic layer was washed with brine and dried over anhydrous sodium sulfate. The solvent was evaporated under reduced pressure to afford the desired compound **801** as a white foamy solid (2 g, 4.8 mmol). MS (LCMS-Electrospray) 418.1 MH<sup>+</sup>.

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# Scheme 8

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#### **Example (301J):**

## Scheme 8 Compound (301J)

(301J)

Resin-bound compound **301B**, **301C**, **301D**, **301E**, **301F** and **301G** were prepared according to the general procedure for solid-phase coupling reactions started with 100 mg of Fmoc-Sieber resin (0.03 mmol). Resin-bound compound **301G** was oxidized to resin-bound compound **301H** according to the general procedure for solid-phase Dess-Martin oxidation. The resin-bound compound **301H** was treated with 4 mL of a 2 % v/v solution of TFA in DCM for 5 min. The filtrate was added to 1 mL of AcOH and the solution was concentrated by vacuum centrifugation to provide compound **301J** (0.0069 g, 29 % yield). MS (LCMS-Electrospray) 771.2 MH<sup>+</sup>.

Using the solid phase synthesis techniques detailed above, and the following moieties for the various functionalities in the compound of Formula 1, the compounds in **Table 3** were prepared:

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Y-W-:

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5 -R<sup>4</sup>:

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-Z-:

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-R<sup>3</sup>:

$$H_3C$$
 $CH_3$ 
 $H_3C$ 
 $CH_3$ 
 $CH_3$ 

126

-R<sup>2</sup>:

5

-R1:

10

-R<sup>5</sup>:

-R<sup>7</sup>:

15

-R<sup>9</sup>:

127

-R<sup>10</sup>:

$$\text{SI'} \overset{O}{\underset{R1'}{\bigvee}} \overset{R2'}{\underset{O}{\bigvee}} \text{NH}_2$$

-R1':

~~ ~~ H CH₃

-R<sup>2</sup>':

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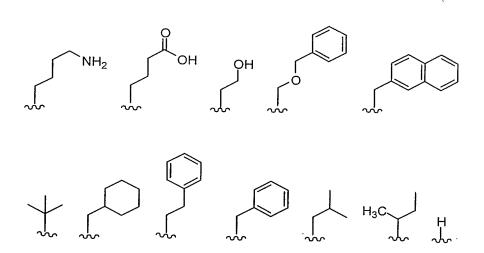


Table 3. Compounds prepared by Solid Phase Synthesis

STRUCTURE	Ki* CLASS
	С
H,N T H T T T T T T T T T T T T T T T T T	С
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HAN THE	С
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H,N THE	В
HAN THE	С
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HAN THE	С
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STRUCTURE	Ki* CLASS
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STRUCTURE	Ki* CLASS
	С
	С
	С
H'N L H L L L L L L L L L L L L L L L L L	С
HO HO HO	С
	С
H,N	С
	С

STRUCTURE	Ki* CLASS
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H'N L H L H L L L L L L L L L L L L L L L	С
	С
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H,N T HO T	С
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	С

STRUCTURE	Ki* CLASS
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	В
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	С

STRUCTURE	Ki* CLASS
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	C
	С
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NH N	С
OT NHO HOUSE	С
H <sub>2</sub> N J J J J J J J J J J J J J J J J J J J	С
ONHO HO HO ON HO HO ON HO HO ON HO HO ON HO HO ON HO HO ON H	С
H <sub>2</sub> N J H J J J J J J J J J J J J J J J J J	C

STRUCTURE	Ki* CLASS
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	С
H <sub>2</sub> N { N	С
H <sup>2</sup> M H O H O O O O O O O O O O O O O O O O	С
H-M-C M-C M-C M-C M-C M-C M-C M-C M-C M-C	С
H <sup>2</sup> N L H L L L L L L L L L L L L L L L L L	С
	В
	В

STRUCTURE	Ki* CLASS
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HIN THE	С
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HANGER	С

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STRUCTURE	Ki* CLASS
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	В

STRUCTURE	Ki* CLASS
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	C
	В
	В
	В
	В

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STRUCTURE	Ki* CLASS
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H,N,	В
	С
OH OH	С
	В
	В
THE	В
	В

STRUCTURE	Ki* CLASS
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	А
	Α
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THE THE PERSON NAMED IN TH	В
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STRUCTURE	Ki* CLASS
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NH.	С
THE REPORT OF THE PARTY OF THE	С
	С
	С
F NH,	С
A A A A A A A A A A A A A A A A A A A	С

STRUCTURE	Ki* CLASS
NH,	С
HO NH.	С
N T T NH,	С
	С
	С
	С
CI NH <sub>2</sub>	В
O H NH <sub>2</sub>	В

STRUCTURE	Ki* CLASS
F NH <sub>2</sub>	В
CI NH <sub>2</sub>	В
	С
CI NH <sub>2</sub>	В
F OH ON	А
HO THE NH2	В
HO F F NH <sub>2</sub>	В
HO NH <sub>2</sub>	В

STRUCTURE	Ki* CLASS
HO F F	В
OMe OMe OMe	В
OMe OMe OMe	В
OMe OMe NH <sub>2</sub>	В
OMe OMe OMe	В
OH NH2	В
P NHz	В
OH NH2	В

STRUCTURE	Ki* CLASS
F OH	А
NH <sub>2</sub>	В
	С
F No.	С
OH OH	С
	С
ON NH2	С
	В

STRUCTURE	Ki* CLASS
NH <sub>2</sub>	С
	С
F OH OH OH	В
TO THE PROPERTY NH.	С
	В
P NH <sub>2</sub>	В
OH OH ONH2	В
F H NH <sub>2</sub>	В

STRUCTURE	Ki* CLASS
NH <sub>2</sub>	В
	В
P P NH <sub>2</sub>	В
	В
	В
OH NHz	В
O H NH <sub>2</sub>	В
P P NH <sub>2</sub>	В

STRUCTURE	Ki* CLASS
NH <sub>2</sub>	В
F OH	В
P NH <sub>2</sub>	В
	В
P NH <sub>2</sub>	В
NH <sub>2</sub>	В
	В
	В

STRUCTURE	Ki* CLASS
HO. THE HELD HAVE	В
	В
HO NH NH,	В
HO H Not.	В
	В
HO NH I NH I	С
HO NH <sub>2</sub>	В
HO NH-1	B

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STRUCTURE	Ki* CLASS
TO SHA	С
	С
F F	· C
TOH OH	С
	В
	С
NH12	С
TO NH.	С

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STRUCTURE	Ki* CLASS
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	С
	С
	С
	С
Loy Litting M.	С
	С
	С

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STRUCTURE	Ki* CLASS
	С
	С
	В
	В
	В
OH NH2	В
F OH NH2	В
OH NH2	В

STRUCTURE	Ki* CLASS
F NH <sub>2</sub>	В
	В
F H OH OH	В
OH NH2	В
+ O H N H N H N H N H N H N H N H N H N H	С
HOLD NH2	В
	В
+0+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+1+	С

STRUCTURE	Ki* CLASS
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NH:	С
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NH <sub>2</sub>	В
F OH OH	В
	В
O H NH;	С
	С

STRUCTURE	Ki* CLASS
	С
NH <sub>2</sub>	С
TO THE STATE OF TH	С
TO THE STATE OF TH	С
> NH <sub>2</sub>	В
> NH <sub>2</sub>	С
+o+p+ NH <sub>2</sub>	С
Y NH NH	С

STRUCTURE	Ki* CLASS
	В
NH <sub>2</sub>	С
	В
J.O. J. J. J. J. J. J. N.H.	С
J. I. J.	С
John NH2	С
- In the second	C
TO THE STATE OF TH	В

STRUCTURE	Ki* CLASS
+ O T T T T T NH.	В
	С
NH <sub>2</sub>	С
F-C-II-N-II-NH.	С
OH NH2	C

Additional compounds that were prepared and their activity (Ki\*) ranges are given in the attached **Tables 4, 5 and 6**. The procedure used to prepare the compounds in **Tables 4, 5** and **6** is outlined below.

## I) Synthesis of intermediates for the compounds in Tables 4, 5 and 6:

Example I. Synthesis of 4,4-dimethyl proline methyl ester (H-Pro(4,4-diMe)-OMe)

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Step 1. Synthesis of tert-Butyl N-tert-butoxycarbonyl-4-methyl-L-pyroglutamate (Boc-PyroGlu(4-methyl)-OtBu):

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To a solution of tert-butyl N-tert-butoxycarbonyl-pyroglutamate (11.5 g, 40 mmol) in THF (200 mL) stirring at -78 °C, was added a 1M solution of lithium hexamethyldisilazide in THF (42 mL, 42 mmol) dropwise over 5 minutes. After 30 minutes, methyliodide (3.11 mL, 50 mmol) was added. After an additional 2 hours at -78 °C, the cooling bath was removed and 50% saturated aqueous ammonium chloride (200 mL) was added. The solution was stirred for 20 minutes, then extracted with ether (3 x 200 mL). The combined organic layers were washed with brine (200 mL), dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was chromatographed with 1:1 ethylacetate/hexanes to give Boc-PyroGlu(4-methyl)-OtBu (10.6 grams, 35.4 mmol, 88%) as a mixture of isomers (2:1 cis to trans). Step 2. Synthesis of tert-Butyl N-tert-butoxycarbonyl-4,4-dimethyl-L-pyroglutamate (Boc-PyroGlu(4,4-dimethyl)-OtBu):

To a solution of tert-butyl N-tert-butoxycarbonyl-4-methyl-L-pyroglutamate (1.2 g, 4.0 mmol) in tetrahydrofuran (20 mL) stirring at -78 °C, was added a 1M solution of lithium hexamethyldisilazide in tetrahydrofuran (4.4 mL, 4.4 mmol) dropwise over 5 minutes. After 30 minutes, methyliodide (0.33 mL, 5.2 mmol) was added. After an additional 3 hours at -78 °C, the cooling bath was removed and

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50% saturated aqueous ammonium chloride (40 mL) was added. The solution was stirred for 20 minutes, then extracted with ether (2 x 50 mL). The combined organic layers were washed with water(2 × 25 mL), saturated sodium bicarbonate (2 × 25 mL), brine (50 mL), dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated to give Boc-PyroGlu(4,4-dimethyl)-OtBu (0.673 g, 54%).

Step 3. Synthesis of tert-butyl N-tert-butoxycarbonyl-4,4-dimethylproline (Boc-Pro(4,4-dimethyl)-OtBu)

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Modification of known procedure: Pedregal, C.; Ezquerra, J.; Escribano, A.; Carreno, M. C.; Garcia Ruano, J. L. *Tetrahedron Letters* **1994**, 35(13), 2053-2056).

To a solution of tert-butyl N-tert-butoxycarbonyl-4,4-dimethylpyroglutamate (2.0 mmol) in tetrahydrofuran (5 mL) stirring at -78 °C, was added a 1M solution of lithium triethylborohydride in tetrahydrofuran (2.4 mL, 2.4 mmol) dropwise over 5 minutes. After 30 minutes, the cooling bath was removed and saturated aqueous sodium bicarbonate (5 mL) was added. The reaction mixture was immersed in an ice/water bath and 30% aqueous hydrogen peroxide (10 drops) was added. The solution was stirred for 20 minutes at 0 °C, then the reaction mixture was concentrated *in vacuo* to remove the tetrahydrofuran. The aqueous solution was diluted with water (10 mL) and extracted with dichloromethane (3 x 40 mL). The organic layers were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was dissolved in dichloromethane (20 mL) and triethylsilane (310 μL, 2.0 mmol), then cooled to -78 °C and boron trifluoride diethyletherate (270 μL, 2.13 mmol) was added dropwise. Stirring was continued for 30 minutes, at which time additional triethylsilane (310 μL, 2.0 mmol) and boron trifluoride diethyletherate (270 μL,

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2.13 mmol) were added. After stirring at -78 °C for an additional two hours, the cooling bath was removed and saturated aqueous sodium bicarbonate (4 mL) was added. After 5 minutes the mixture was extracted with dichloromethane (3 x 40 mL). The organic layers were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated to give Boc-Pro(4,4-dimethyl)-OtBu.

Step 4. Synthesis of 4,4-dimethylproline (H-Pro(4,4-dimethyl)-OH):

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A solution of tert-butyl N-tert-butoxycarbonyl-4,4-dimethylproline in dichloromethane (5 mL) and trifluoroacetic (5 mL) was stirred at room temperature for five hours. The solution was concentrated, dried under high vacuum and taken to the next step without further purification.

Step 5. Synthesis of N-tert-butoxycarbonyl 4,4-dimethylproline (Boc-Pro(4,4-dimethyl)-OH):

To a solution of 4,4-dimethylproline trifluoroacetic salt (1.5 mmol) in dioxane (7 mL), acetonitrile (12 mL) and diisopropylethylamine (700  $\mu$ L, 4 mmol) was added a solution of di-tert-butyl-dicarbonate (475 mg, 2.18 mmol) in acetonitrile (5 mL). After stirring for 12 hours at room temperature the solution was concentrated in vacuo, dissolved in saturated aqueous sodium bicarbonate (50 mL) and washed with diethyl ether (3 x 40 mL). The aqueous layer was acidified to pH=3 with citric acid, then extracted with dichloromethane (3 x 40 mL).

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The combined organic layers were dried over sodium sulfate filtered and concentrated.

Step 6. Synthesis of 4,4-dimethylproline methylester hydrochloride salt (HCI•H-Pro(4,4-dimethyl)-OMe):

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To a solution of Boc-Pro(4,4-diMe)-OH (0.5 g, 2.06 mmol) in anhydrous methanol (8 ml) was added dropwise thionylchloride (448 □I, 6.18 mmol) and the reaction was stirred for six hours at room temperature. The reaction mixture was concentrated to an amorphous solid (377 mg, 95%).

Example II. General procedure for the synthesis of N-tertbutoxycarbonyl-4-alkyl-4-methyl proline:

Compounds where R group is allyl and benzyl were synthesized following steps 1-4 below:

## Step 1. Synthesis of tert-Butyl N-tert-butoxycarbonyl-4-alkyl-4-methyl-L-pyroglutamate:

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To a solution of tert-butyl N-tert-butoxycarbonyl-4-methyl-L-pyroglutamate (10.2 g, mmol) (see Example I, step 1) in tetrahydrofuran (170 mL) stirring at -78 °C, was added a 1M solution of lithium hexamethyldisilazide in tetrahydrofuran (37.5 mL, 37.5 mmol) dropwise over 5 minutes. After 40 minutes, alkyl halide (61.4 mmol) was added. After an additional 3 hours at -78 °C, the cooling bath was removed and 50% saturated aqueous ammonium chloride (200 mL) was added. The solution was stirred for 20 minutes, then extracted with ether (2 x 200 mL). The combined organic layers were diluted with hexanes (150 mL) and washed with saturated sodium bicarbonate (100 mL), water (2 x 100 mL) and brine (100 mL), dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was flash chromatographed using 20% ethylacetate in hexanes to give the pure tert-Butyl N-tert-butoxycarbonyl-4-alkyl-4-methyl-L-pyroglutamate.

Step 2. Synthesis of tert-butyl N-tert-butoxycarbonyl-4-alkyl-4-methylproline:

Modification of known procedure: Pedregal, C.; Ezquerra, J.; Escribano, A.; Carreno, M. C.; Garcia Ruano, J. L. *Tetrahedron Letters* (1994) 35(13), 2053-2056).

To a solution of tert-butyl N-tert-butoxycarbonyl-4-alkyl-4methylpyroglutamate (16.6 mmol) in tetrahydrofuran (40 mL) stirring at -78 °C, was added a 1M solution of lithium triethylborohydride in tetrahydrofuran (20 mL, 20 mmol) dropwise over 10 minutes. After 120 minutes, the cooling bath was allowed to warm to -25 °C at which point saturated aqueous sodium bicarbonate (40 mL) was added. The reaction mixture was immersed in an ice/water bath and 30% aqueous hydrogen peroxide (4 mL) was added. The solution was stirred for 10 minutes at 0 °C, then the reaction mixture was concentrated in vacuo to remove the tetrahydrofuran. The aqueous solution was diluted with water (300 mL) and extracted with dichloromethane (3 x 200 mL). The organic layers were dried (sodium sulfate), filtered and concentrated. The residue was dissolved in dichloromethane (100 mL) and triethylsilane (2.6 mL, mmol), then cooled to -78 °C and boron trifluoride diethyletherate (2.2 mL, mmol) was added dropwise. Stirring was continued for 1 hour, at which time additional triethylsilane (2.6 mL, mmol) and boron trifluoride diethyletherate (2.2 mL, mmol) were added. After stirring at -78 °C for an additional 4 hours, the cooling bath was removed and saturated aqueous sodium bicarbonate (30 mL) and water (150 mL) were added. After 5 minutes the mixture was extracted with dichloromethane (3 x 200 mL). The organic layers were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated.

20 Step 3. Synthesis 4-alkyl-4-methylproline:

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A solution of tert-butyl N-tert-butoxycarbonyl-4-alkyl-4-methylproline in dichloromethane (5 mL) and trifluoroacetic (5 mL) was stirred at room temperature for 5 hours. Toluene was added and the solution was concentrated and then dried under high vacuum.

Step 4. Synthesis of N-tert-butoxycarbonyl 4-alkyl-4-methylproline:

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To a solution of 4-alkyl-4-methylproline trifluoroacetic salt (1.5 mmol) in dioxane (7 mL), acetonitrile (12 mL) and diisopropylethylamine (700  $\mu$ L, 4 mmol) was added a solution of di-tert-butyl-dicarbonate (475 mg, 2.18 mmol) in acetonitrile(5 mL). After stirring for 12 hours at room temperature the solution was concentrated in vacuo, dissolved in saturated aqueous sodium bicarbonate (50 mL) and washed with diethyl ether (3 x 40 mL). The aqueous layer was acidified to pH=3 with 1N hydrochloric acid, then extracted with dichloromethane (3 x 40 mL). The combined organic layers were dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and concentrated. The residue was purified by flash chromatography using 1:1 ethylacetate/hexanes with 1% acetic acid.

Example III. Synthesis of N-tert-butoxycarbonyl 4-propyl-4-methylproline:

A solution of N-tertbutoxycarbonyl-4-allyl-4-methylproline (400 mg, 1.48 mmol) (see Example II Step 4) and 10% Pd on carbon (400 mg) in methanol (20 mL) was hydrogenated at 50 psi for 4 hours. The mixture was filtered and concentrated.

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## Example IV. Synthesis of Boc-4-cyclohexylproline:

A solution of the commercially available Boc-4-phenylproline (750 mg) and 5% Rh on carbon (750 mg) in methanol (15 mL) was hydrogenated at 50 psi for 24 hours. The mixture was filtered and concentrated to give 730 mg of product. Example V: Preparation of Fluorenylmethoxycarbonyl-Pro(4-spirocyclopentane)-carboxylic acid:

## Step 1. Synthesis of Boc-pyroglutamic(4-allyl)-tert-butylester:

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To a cooled (-78 °C) solution of the commercially available N□-Boc-tert-butyl pyroglutamate (10 g, 35.1 mmol) in THF (175 ml) was added lithium hexamethyldisilazide (36.8 mL, 36.8 mmol) over five minutes. Stirring continued for thirty minutes. A solution of allyl bromide (6.1 ml, 70.2 mmol) in THF (39 mL) was added dropwise to the first solution. After two hours at -78 °C, the reaction was quenched by the slow addition of saturated ammonium chloride (50 mL) solution. The reaction mixture was then diluted with ethylacetate and the layers were separated. The organic layer dried over sodium sulfate and concentrated.

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Flash column chromatography carried out in 2:8 ethylacetate: hexanes afforded the product (6 g, 53%). NMR δ ppm (CDCl3): 5.7 (m, 1H), 5.1 (dd, 2H), 4.4 (m, 1H), 2.6 (m, 2H), 2.4 (m, 1H), 1.8-2.2 (m, 1H), 1.45 (s, 9H), 1.4 (s, 9H). Step 2. Synthesis of N-Boc-pyroglutamic(4,4-diallyl)-tert-butylester:

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N-Boc-pyroglutamic(4-allyl)-tert-butylester obtained in the Step 1 above (2.68 g, 8.24 mmol) was subjected to a second alkylation with allyl bromide under similar conditions. Flash chromatography in 15:85 ethylacetate: hexanes provided 2.13 g product (71%) as a clear oil.

Step 3. Synthesis of Boc-Pro(4,4-diallyl)-tert-butylester:

Part a: To a cooled (-78 °C) solution of Boc-PyroGlu(4,4-diallyl)-tert-butylester (2.13 g, 5.83 mmol) in tetrahydrofuran (14 ml) was added lithium triethylborohydride (1M in tetrahydrofuran, 7.29 ml, 7.29 mmol) over five minutes. After two hours at -78 °C, the reaction was warmed-up to 0 °C and quenched by the slow addition of saturated sodium bicarbonate solution (20 ml) and 30% hydrogen peroxide (20 drops). Stirring continued for 20 minutes. The tetrahydrofuran was removed under reduced pressure and the remaining thick white residue was diluted with water (80 ml) and extracted three times with dichloromethane. The organic layer was dried, filtered and concentrated and taken to the next step without further purification.

Part b): To the product obtained in part (a) in dichloromethane (14 ml) was added triethylsilane (931  $\mu$ l, 5.83 mmol) followed by boron trifluoride diethyl

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etherate (776  $\mu$ l, 6.12 mmol). After thirty minutes more triethylsilane (931  $\mu$ l, 5.83 mmol) and boron trifluoride diethyl etherate etherate (776  $\mu$ l, 6.12 mmol) were added and the reaction was stirred at -78 °C for three hours at which time the reaction was quenched by the slow addition of saturated sodium bicarbonate solution and water. The reaction mixture was extracted with dichloromethane and the organic layer was dried, filtered and concentrated. Flash column chromatography in 15% ethylacetate in hexanes afforded 1.07 colorless oil (57%). NMR  $\delta$  ppm (CDCl3): 5.7-5.8 (m, 2H), 5.1 (m, 4H), 4.1-4.2 (2 dd's, 1H rotamers), 3.5-3.3 (dd, 1H) and 3.2 (dd, 1H) rotamers, 2.2-2.0 (m, 5H), 1.7(m, 1H), 1.46 (s, 9H), 1.43 (s, 9H).

Step 4. Synthesis of Boc-Pro(4-spirocyclopentene)-tert-butylester:

To Boc-Pro(4,4-diallyl)-tert-butylester (1.07 g, 3.31 mmol) in dichloromethane (66 ml) was added 5% Bis(tricyclohexylphosphin)benzylidene ruthenium IV dichloride (Grubbs catalyst) and the mixture was heated at reflux for 1.5 hours. The reaction mixture was concentrated and the remaining residue was purified by flash column chromatography in 15% ethylacetate in hexanes. A yellow oil was obtained (0.57 g, 53%). NMR  $\delta$  ppm (CDCl3): 5.56 (bs, 2H), 4.2 and 4.1 (t, 1H, rotamers), 3.2-3.5 (m, 2H), 2.2-2.5 (m, 5H), 1.9 (dd, 1H) 1.47 and 1.46 (2 s's, 9H, rotamers), 1.45 and 1.44 (2 s's, 9H, rotamers).

Step 5. Synthesis of Boc-Pro(4-spirocyclopentane)-tert-butylester:

A solution of Boc-Pro(4-spirocyclopentene)-tert-butylester (1.12 g) in methanol (18 ml), water (4 ml) and acetic acid (4 ml) was placed in the Parr

shaker and was hydrogenated for three hours at 35 psi in the presence of 10% palladium on carbon (300 mg). The catalyst was filtered off and the filtrate was concentrated to a colorless oil (1.26 g). NMR  $\delta$  ppm (CDCl3): 4.1 and 4.2 (t, 1H, rotamers, 3.4 (d, 1H), 3.2 (d, 1H), 2.1 (m, 1H), 1.9 (m, 1H), 1.6-1.7 (m, 10H), 1.5 (3 s's, 18H, rotamers).

Step 6. Synthesis of Fmoc-Pro(4-spirocyclopentane)-carboxylic acid:

The Boc-Pro(4-spirocyclopentane)-tert-butylester (1.26, 3.9 mmol) was treated with dichloromethane (10 ml) and trifluoroacetic acid (15 ml) for three hours. The reaction mixture was concentrated and the yellow oil obtained was dissolved in water (6 ml). Fluorenylmethyl succinyl carbonate (1.45 g, 4.3 mmol) dissolved in dioxane (6 ml) was added portionwise followed by the addition of potassium carbonate (2.16 g, 15.6 mmol). The reaction was stirred for 18 hours and concentrated. The remaining residue was diluted with the saturated sodium bicarbonate solution (10 mL) and washed with diethylether (3 × 10 ml). The aqueous layer was then acidified to pH ~ 1 with 1N sodium bisulfate solution and extracted with ethylacetate. The organic layer was dried over sodium sulfate, filtered and concentrated to a beige foam (1.3 g, 100%).

Example VI. Synthesis of Boc-Pro(4t-NH(Fmoc))-OH:

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Step 1. Synthesis of  $N^{\alpha}$ -tert-butoxycarbonyl-cis-4-chloro-L-proline benzyl ester:

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A mixture of the commercially available N<sup>D</sup>-tert-butoxycarbonyl-trans-4hydroxy-proline (8.79 g, 38 mmol), potassium carbonate (13.0 g, 94 mmol), benzyl bromide (4.5 ml, 38 mmol) and dimethylformamide (150 mL) was stirred for 18 h. Addition of ethyl acetate (100 mL) was followed by filtration. The white cloudy filtrate was clarified by the addition of 1M HCI (100 mL). The layers were separated and the aqueous layer was extracted with additional ethyl acetate (2 x 100 mL). The combined organic layers were washed with water (2 x 50 mL), dried (sodium sulfate), filtered and concentrated. Toluene was added to the crude benzyl ester, and the solution was filtered and reconcentrated. Dichloromethane (70 mL) and carbon tetrachloride (70 mL) was added, followed by triphenylphosphine (21.11 g, 80 mmol). The reaction mixture was stirred for 10 h, quenched with ethanol (7 mL) and stirred for 5 more h. The solution was concentrated to approx. 100 ml, then dichloromethane (40 mL) was added, followed by the addition of ether (200 mL) while stirring. The solution was cooled for 4 h, filtered and concentrated to give a yellow-brown oil which was purified by flash chromatography using ether/hexane/dichloromethane 2:2:1 to give the title compound (9.13 g, 26.9 mmol, 71%) as a white solid.

Step 2. Synthesis of N<sup>α</sup>-tert-butoxycarbonyl-trans-4-azido-L-proline benzyl ester:

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A solution of  $N^{\alpha}$ -tert-butoxycarbonyl-cis-4-chloro-L-proline benzyl ester (9.0 g, 26.5 mmol) and sodium azide (7.36 g, 113 mmol) in dimethylformamide (270

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mL) was heated at 75°C for 2 days. Water (100 mL) was added and the reaction mixture was extracted with ethyl acetate (3 x 100 mL). The combined organic layers were washed with water (3 x 50 mL), dried (sodium sulfate), filtered and concentrated. The oil was purified by flash chromatography using ethyl acetate/hexanes 1:1 to give the title compound (8.59 g, 24.8 mmol, 94%). Step 3. Synthesis of Boc-Pro(4t-NH(Fmoc))-OH:

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A mixture of N- $\alpha$ -t-butoxycarbonyl-trans-4-azido-L-proline benzyl ester (8.59 g, 24.8 mmol) and 10% palladium on carbon (900 mg) in ethanol (500 mL) was hydrogenated at 50 psi for 14 h using a Parr hydrogenation apparatus. The mixture was filtered, concentrated, dissolved in methanol (60 mL), refiltered and concentrated to give a colorless oil. The oil was dissolved in water (53 mL) containing sodium carbonate (5.31 g, 50.1 mmol) and a solution of fluorenylmethyl succinyl carbonate (8.37 g, 29.8 mmol) in dioxane (60 mL) was added over 40 min. The reaction mixture was stirred at room temperature for 17 h, then concentrated to remove the dioxane and diluted with water (200 mL). The solution was washed with ether (3 x 100 mL). The pH of the aqueous solution was adjusted to 2 by the addition of citric acid (caution! foaming!) and water (100 mL). The mixture was extracted with dichloromethane (400 mL, 100 mL, 100 mL) and the combined organic layers were dried (sodium sulfate), filtered and concentrated to give the title compound.

<u>Example VII. Synthesis of N-t-butoxycarbonyl-4-trans-(N-fluorenylmethyloxycarbonyl aminomethyl)-L-proline (Boc-Pro(4t-MeNHFmoc)-OH):</u>

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Step 1. Synthesis tert-butoxycarbonyl cis-4-hydroxy-L-proline benzyl ester (Boc-Pro(4-cis-OH)-OBn):

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To a mixture of cis-hydroxy-L-proline (5 g, 38.1 mmol) in benzene (45 mL) and benzyl alcohol (45 mL) was added p-toluenesulfonic acid monohydrate (7.6 g, 40.0 mmol). The reaction mixture was heated at 125°C for 20 h while water (2ml) was removed using a Dean-Stark trap. The solution was filtered while still hot, and then ether (150 ml) was added. The solution was allowed to cool for three h at room temperature, then three h at 4 °C. The resulting solid was collected, washed with ether (100 mL) and dried in vacuo for 1 h to give 13.5 grams of white solid. The solid was dissolved in dioxane (40 mL) and diisopropylethylamine (7.6 mL), and then di-tert-butyl-dicarbonate (10 g, 45.8 mmol) was added over 5 min while using an ice bath to maintain a constant reaction temperature. After 10 h at room temperature the reaction mixture was poured into cold water (200 mL) and extracted with ethyl acetate (3 x 200 mL). The combined organic layers were washed with water (3 x 100 mL) and saturated aqueous sodium chloride (50 mL), dried (sodium sulfate), filtered and concentrated. The crude product was purified

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by flash chromatography using 40-60% ethyl acetate in hexanes to give the title compound (10.04 g, 31.24 mmol, 82%).

Step 2. Synthesis of N-t-butoxycarbonyl cis-4-mesyloxy-L-proline benzyl ester (Boc-Pro(4-cis-OMs)-OBn):

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To a solution of Boc-Pro(4-cis-OH)-OBn (8.45 g, 26.3 mmol) in pyridine (65 mL) at 0°C, was added methanesulfonyl chloride (3.4 mL, 44 mmol) dropwise over 7 min. The reaction mixture was allowed to warm to room temperature over 2 h, then stirred overnight. A solution of 10% water in pyridine (20 mL) was added over 15 min and the reaction mixture was concentrated. The residue was dissolved in water and extracted with ethyl acetate (2 x 200 mL). The combined organic layers were washed with water (2 x 50 mL) saturated aqueous sodium bicarbonate (50 mL) and saturated aqueous sodium chloride (50 mL), dried (sodium sulfate), filtered and concentrated. The resulting residue was dissolved in toluene (100 mL) and concentrated to remove traces of pyridine. The residue was dried in vacuo for 30 min to afford the title compound (10.7 g, 102%), then used in the next step without purification.

Step 3. N-t-butoxycarbonyl-trans-4R-cyano-L-proline benzylester (Boc-Pro(4-trans-CN)-OBn):

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A solution of Boc-Pro(4-cis-OMs)-OBn (10.7 g, 26.3 mmol) and tetrabutylammonium cyanide (15.0 g, 56 mmol) in dimethylformamide (100 mL) was heated in an oil bath at 55°C for 28 h. After cooling, water (150 mL) was added and the mixture was extracted with ethyl acetate (3 x 200 mL). The combined organic layers were washed with water (3 x 100 mL) and saturated aqueous sodium chloride (100 mL), dried (sodium sulfate), filtered and concentrated. The resulting residue was purified by flash chromatography (1:1 ether/hexanes) and then recrystallized from ethyl acetate/hexanes to provide the title compound (2.40 g, 7.26 mmol, 28%).

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<u>Step 4. N-t-butoxycarbonyl-4-trans-(N-fluorenylmethyloxycarbonyl aminomethyl)-L-proline (Boc-Pro(4t-MeNHFmoc)-OH) :</u>

A mixture of the compound of Step 3 above (2.31 g, 7 mmol), water (10 mL), methanol (85 mL) and 10% palladium on carbon (700 mg) was hydrogenated at 50 psi for 11 h using a Parr hydrogenation apparatus. The mixture was filtered and concentrated. Water (15 mL) and sodium carbonate (1.5 g, 14.2 mmol) was added to the residue. A solution of fluorenylmethyl succinyl carbonate (2.36 g, 7.0 mmol) in dioxane (17 mL) was added over 5 min and stirring was continued for 28

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h at room temperature. The reaction was concentrated in vacuo to a 15 mL volume, and water (100 mL) was added. The solution was washed with ether (3 x 75 mL). The pH of the aqueous solution was adjusted to 2 by the addition of citric acid (approx. 20 g, caution! foaming!) and water (100 mL). The mixture was extracted with dichloromethane (4 x 100 mL), and the combined organic layers were dried (sodium sulfate), filtered and concentrated. The crude product contained a major impurity which necessitated a three step purification. The crude product was dissolved in dichloromethane (50 mL) and trifluoroacetic acid (50 mL) and stirred for 5 h before being concentrated. The residue was purified by preparatory reverse-phase HPLC. The pure 4-(N-fluorenylmethyloxycarbonyl aminomethyl)proline trifluoroacetate salt (1.887 g, 3.93 mmol) was dissolved in dioxane (10 mL), acetonitrile (20 mL) and diisopropylethylamine (1.4 mL, 8 mmol). To the reaction mixture was added a solution of di-tert-butyldicarbonate (1.1g, 5 mmol) in dioxane (5 mL). After stirring for 18 h, the pH of the solution was adjusted to 2 by the addition of citric acid (caution: foaming!) and water (100 mL). The mixture was extracted with ethyl acetate (3 x 150 mL) and the combined organic layers were washed with saturated aqueous sodium chloride (100 mL), dried (sodium sulfate), filtered and concentrated. The crude product was dissolved in saturated aqueous sodium bicarbonate(100 mL) and washed with ether (3 x 75 mL). The aqueous layer was adjusted to pH = 3 by the addition of citric acid, then extracted with dichloromethane (4 x 100 mL). The combined organic layers were dried (sodium sulfate), filtered and concentrated to the title compound (1.373 g, 2.94 mmol, 42%).

Example VIII. Synthesis of 3,4-isopropylideneprolinol:

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Step I. Cyclopropanation reaction (*Tetrahedron Lett.* 1993, 34(16), 2691 and 2695):

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To a stirring solution of isopropyltriphenyl- phosphonium iodide (4.14 g, 9.58 mmol) in tetrahydrofuran (60 mL) at 0 °C, was added n-butyllithium (1.6 M in hexanes, 5.64 mL, 9.02 mmol) over 5 min. After 30 min, a solution of enamide ((5R, 7S)-5-phenyl-5,6,7,7a-tetrahydro-6-oxapyrrolizin-3-one) (1.206 grams, 6.0 mmol) (see *J. Org. Chem.* 1999, 64(2), 547 for the synthesis of the enamide starting material) in tetrahydrofuran (40 mL) was added over 10 min. After an additional 10 min, the cooling bath was removed and the reaction mixture was stirred at room temperature for 4 hours. The reaction was poured into water (400 mL) and extracted with diethyl ether (400 mL) and ethylacetate (2 x 400 mL). The combined organic extracts were dried with sodium sulfate, filtered and concentrated to give the desired crude product. The residue was purified by flash chromatography eluting with 3:5:2 ethylacetate/hexanes/methylene chloride to give pure cyclopropanated product (750 mg, 3.08 mmol, 51%).

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Step 2. Synthesis of 3,4-isopropylideneprolinol P[3,4-(diMe-cyclopropyl)]-alcohol) (*J. Org. Chem.* (1999) 64(2), 330):

A mixture of the product obtained in step 1 above (1.23 grams, 5.06 mmol) and lithium aluminum hydride (1.0 M in THF, 15 mL, 15 mmol) was heated at reflux for 5 hours. After cooling to 0 °C, the remaining aluminum hydride was carefully quenched by the dropwise addition of saturated aqueous sodium sulfate

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(1.5 mL) over 15 min. The mixture was diluted with ethylacetate (40 mL) and then filtered through celite. The filtrate was dried with sodium sulfate, filtered and concentrated to give crude N-benzyl aminoalcohol (1.25 grams), which was carried on to the next step without further purification. A solution of crude N-benzyl aminoalcohol (1.25 grams, 5.06 mmol) in 1:1 acetic acid/ethylacetate (30 mL) with 10% Pd/C (1 gram) was hydrogenated at 50 psi for 16 hours using a Parr hydrogenation apparatus. The reaction mixture was filtered to remove the carbon-based catalyst and the filtrate was concentrated. The residue was dissolved in water (30 mL) and the pH was adjusted to 13 with 50% NaOH. The mixture was extracted with ether (3 x 60 mL). The combined extract was dried with sodium sulfate, filtered and concentrated to give crude aminoalcohol (485 mg, 3.43 mmol). This material was taken to the next step without further purification. Example IX. Synthesis of iBoc-G(Chx)-Pro(3,4-isopropylidene)- carboxylic acid:

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Step 1. Synthesis of isobutyloxycarbonyl- cyclohexylglycine (iBoc-G(Chx)-OH):

To a solution of the commercially available cyclohexylglycine hydrochloride (15 g, 77.4 mmol) in acetonitrile (320 ml) and water (320 ml) was added potassium carbonate. Isobutylchloroformate (11.1 ml, 85.1 mmol) was added to the clear solution over 15 minutes and the reaction was stirred for 17 hours. The

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acetonitrile was removed under reduced pressure and the remaining aqueous layer was extracted twice with ether (100 ml). The aqueous layer was then acidified to pH 1 with 6N hydrochloric acid and extracted with dichloromethane (3  $\times$  300 ml). The organic layer was dried over sodium sulfate, filtered and concentrated to yield 18.64 g (94%) product as a white solid.

Step 2. Synthesis of isobutyloxycarbonyl-cyclohexylglycyl-3,4-isopropylideneproline (iBoc-G(Chx)- P[3,4-(diMe-cyclopropyl)]-OH):

# a) Coupling step

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To a solution of iBoc-G(Chx)-OH (890 mg, 3.45 mmol) in acetonitrile (20 mL) was added HATU (1.33 g, 3.5 mmol), HOAt (476 mg, 3.5 grams) and then diisopropylethylamine (2.5 mL, 14 mmol). After a 2 minutes, 3,4-isopropylideneprolinol (485 mg, 3.43 mmol) was added and the reaction mixture was stirred overnight. Addition of saturated aqueous sodium bicarbonate was followed by extraction with ether and ethylacetate. The combined organic layers were dried, filtered and concentrated. The residue was purified by flash chromatography eluting with 1:1 ethylacetate/hexanes to give pure dipeptide alcohol iBoc-G(Chx)-3,4-isopropylideneprolinol (870 mg, 2.3 mmol, 67%)

# b) Jones oxidation step

To a solution of dipeptide alcohol iBoc-G(Chx)-3,4-isopropylideneprolinol (100 mg, 0.26 mmol) in acetone (2 mL) stirring at 0 °C was added Jones reagent (300  $\mu$ L) dropwise over 5 min. [Jones Reagent: Prepared from chromium trioxide (13.4 g) and concentrated sulfuric acid (11.5 mL) diluted with water to a total volume of 50 mL.] After stirring at 0 °C for 3 hours, isopropanol (500  $\mu$ L) was added and stirring continued for an additional 10 minutes. The reaction mixture

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was diluted with water (20 mL) and extracted with ethylacetate (3 x 70 mL). The combined organic layers were dried, filtered and concentrated to give the dipeptide iBoc-G(Chx)-3,4-isopropylideneproline (100 mg, 0.25 mmol, 96%). Example X. Synthesis of N-Cbz-3,4-methanoproline:

Step 1. Synthesis of N-benzyl-3,4-methanoprolinol:

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A mixture of the benzylidene starting material (J. Org. Chem. 1999, 64(2), 547) (4.6 grams, 21.4 mmol) and lithium aluminum hydride (1.0 M in THF, 64 mL, 64 mmol) was heated at reflux for 5 hours. After cooling to 0 °C, the remaining aluminum hydride was carefully quenched by the dropwise addition of saturated aqueous sodium sulfate (5 mL) over 15 min. The mixture was diluted with ethylacetate (200 mL) and then filtered through celite. The filtrate was dried with sodium sulfate, filtered and concentrated to give crude N-benzyl aminoalcohol (3.45 grams), which was carried on to the next step without further purification. Step 2. Synthesis of N-benzyloxycarbonyl-3,4-methanoprolinol (CBz-P(3,4-CH2)-ol):

A solution of crude N-benzyl aminoalcohol (3 grams, 14.76 mmol) in methanol (120 mL) and concentrated HCl (1.5 mL) with 10% Pd/C (300 mg) was

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hydrogenated at 50 psi for 16 hours. The reaction mixture was filtered to remove the carbon-based catalyst and the filtrate was concentrated. The residue was dissolved in water/dioxane (100 mL) and diisopropylethylamine (3.2 mL) was added. Benzyl chloroformate (2.76 mL, 16.2 mmol) was added and the reaction was stirred overnight. The reaction mixture was concentrated, dissolved in 1M HCI (100 mL) and extracted with ethylacetate (3 x 200 mL). The combined organic layers were dried with magnesium sulfate, filtered and concentrated. The residue was purified by flash chromatography using 1:3 ethylacetate/hexanes to give the N-Cbz-3,4-methanoprolinol (2.4 g)

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Step 3. Synthesis of N-benzyloxycarbonyl-3,4-methanoproline (CBz-P(3,4-CH2)-OH):

To a solution of N-Cbz-3,4-methanoprolinol (2.2 g, 8.90 mmol) in acetone (68 mL) stirring at 0 °C, was added Jones reagent (6.6 mL) dropwise over 5 min. [Jones Reagent: Prepared from chromium trioxide (13.4 g) and concentrated sulfuric acid (11.5 mL) diluted with water to a total volume of 50 mL.] After stirring at 0 °C for 3 hours, isopropanol (11 mL) was added and stirring continued for an additional 10 minutes. The reaction mixture was diluted with water (400 mL) and extracted with ethylacetate (3 x 500 mL). The combined organic layers were dried over magnesium sulfate, filtered and concentrated to give N-Cbz-3,4-methanoproline (2.25 g, 96%)

Example XI. Synthesis of Boc-(6S-carboethoxymethano) proline:

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The synthesis of the title compound was carried out according to the published procedure: Marinozzi, M.; Nataini, B.; Ni, M.H.; Costantino, G.; Pellicciari R. *IL Farmaco* (1995) 50 (5), 327-331.

5 Example XII. Synthesis of Boc-3-morpholine carboxylic acid:

The synthesis of the title compound was carried out according to the published procedure: Kogami Y., Okawa, K. *Bull. Chem. Soc. Jpn.* (1987) 60, 2963-2965.

Example XIII. Synthesis of N-tert-butoxycarbonyl 2-aza-3S-hydroxycarbonyl-[2,2,2]-bicyclooctane:

A solution of crude 2-aza-2-(1-phenylethyl)-3S-methoxycarbonyl-[2,2,2]-bicyclooct-5-ene (10 mmol) (Tetrahedron (1992) 48(44) 9707-9718) and 10% Pd on carbon (1 g) in methanol (30 mL) was acidified with 12N HCl then hydrogenated at 50 psi for 16 hours using a Parr hydrogenation apparatus. The

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reaction mixture was filtered to remove the carbon-based catalyst and the filtrate was concentrated. The residue was dissolved in concentrated HCl and stirred overnight. The solution was concentrated and redissolved in acetonitrile (50 mL). Diisopropylethylamine (3.5 mL) and di-tert-butyldicarbonate (1 g) were added.

The reaction mixture was stirred for 24 hours and then concentrated. The residue was dissolved in CH<sub>2</sub>Cl<sub>2</sub> and 5% aqueous sulfuric acid. The reaction mixture was extracted with CH<sub>2</sub>Cl<sub>2</sub> and the combined organic layers were concentrated. The residue was dissolved in 10% saturated sodium bicarbonate, washed with diethyl ether (2x) and acidified with 5% aqueous sulfuric acid. The aqueous layer was extracted with ethylacetate (2x). The combined ethylacetate layers were dried filtered and concentrated to give N-tert-butoxycarbonyl 2-aza-3S-hydroxycarbonyl-[2,2,2]-bicyclooctane (650 mg).

Example XIV. Synthesis of isobutyloxycarbonyl-cyclohexylglycyl-4,4-dimethyl proline (iBoc-G(Chx)-P(4,4-dimethyl)-OH):

Step I. Synthesis of iBoc-G(Chx)-P(4,4-dimethyl)-OMe:

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To a solution of iBoc-G(Chx)-OH (Example IX, Step 1.)(377 mg, 1.95 mmol) in acetonitrile (7 mL) was added successively HCI•HN-Pro(4,4-dimethyl)-OMe (Example I, step 6)(377 mg, 1.95 mmol), N-hydroxybenzotriazole (239 mg,

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1.75 mmol), TBTU (845 mg, 2.63 mmol) and diisopropylethylamine (1.35 mL, 7.8 mmol). The reaction mixture was stirred at room temperature for 18 hours. The reaction mixture was concentrated and the remaining residue was dissolved in ethylacetate. The organic layer was washed twice with 10 ml portions of saturated sodium bicarbonate solution, 1N hydrochloric solution, and brine. The organic layer was dried over sodium sulfate, filtered and concentrated to a white solid (612 mg, 79%).

# Step 2. Synthesis of iBoc-G(Chx)-P(4,4-dimethyl)-OH:

The methyl ester obtained in Step 1 above (612 mg, 1.54 mmol) in methanol (6 ml) was saponified in the presence of 2M lithium hydroxide (1.16 ml) for three hours. The methanol was removed under reduced pressure and the remaining residue was diluted with ethylacetate and acidified to pH=2 with 1N hydrochloric acid. The layers were separated and the organic layer was washed with water and brine, dried over sodium sulfate, filtered and concentrated. Example XV. Synthesis of L-phenylglycine dimethylamide

# Step 1. Synthesis of N-benzyloxycabonyl –L-phenylglycine dimethylamide (CBz-Phg-NMe2):

N-benzyloxycarbonyl-L-phenylglycine (25g, 88 mmols) was dissolved in THF (800mL) and cooled to -10  $^{\rm O}$ C. N-methylmorpholine (9.7 mL, 88 mmols) and isobutylchloroformate (11.4 mL, 88.0 mmols) were added and the mixture allowed to stir for 1 minute. Dimethylamine (100 mL, 2M in THF) was added and the reaction was allowed to warm to room temperature. The mixture was filtered and the filtrate concentrated in *vacuo* to afford N-benzyloxycabonyl –L-phenylglycine dimethylamide (32.5 g) as a yellow oil.

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#### Step 2. Synthesis of L-phenylglycine dimethylamide (H-Phg-NMe2):

The N-benzyloxycarbonyl-L-phenylglycine dimethylamide (32.5 g) obtained above was dissolved in methanol (750 ml) and 10% palladium on activated carbon (3.3 g) was added. This mixture was hydrogenated on a Parr apparatus under 35 psi hydrogen for 2 hours. The reaction mixture was filtered and the solvent removed in *vacuo* and the residue recrystallized from methanol-hexanes to afford phenylglycine dimethylamide (26g) as an off white solid. The ee of this material was determined to be >99% by HPLC analysis of the 2,3,4,6-tetra-O-acetylglucopyranosylthioisocyanate derivative.

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# Example XVI. Synthesis of (1-methylcyclohexyl) glycine:

#### Step 1. 1-methyl-1-hydroxymethylcyclohexane

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To a solution of 1-methyl-1-hydroxycarbonylcyclohexane (10 g, 70 mmol) in tetrahydrofuran(300 mL) at 0 °C was added 1M diborane in tetrahydrofuran (200 mL, 200 mmol) over 90 minutes. The cooling bath was removed and the reaction mixture was stirred at room temperature for two days. The remaining borane was quenched by the slow addition of saturated sodium bisulfate (10 mL) over 90 min with cooling. Additional saturated sodium bisulfate (200 mL) was added and after 20 min of stirring the aqueous layer was removed. The organic layer was washed with water and saturated sodium chloride, dried, filtered and concentrated. The

residue was purified by flash chromatography using 20% diethylether in hexanes to give 1-methyl-1-hydroxymethylcyclohexane (6.17 g, 48 mmol, 69%). Step 2. 1-methylcyclohexylcarboxaldehyde:

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To a solution of 1-methyl-1-hydroxymethylcyclohexane (6.17 g, 48 mmol) and triethylamine (20.1 mL, 144 mmol) in dichloromethane (150 mL) at 0 °C, was added a solution of pyridine sulfur trioxide complex (22.9 g, 144 mmol) in dimethylsulfoxide (150 mL) over 15 min. The cooling bath was allowed to warm to room temperature over two hours, at which time the reaction mixture was poured into brine with ice (400 mL). The layers were separated and the aqueous layer was extracted with dichloromethane (200 mL). The combined organic layers were diluted with hexanes (600 mL) and washed with 1M HCl (2 x 150 mL), saturated sodium chloride (2 x 100 mL), dried, filtered and concentrated. The residue was purified by flash chromatography to give 1-methylcyclohexylcarboxaldehyde (1.77 g, 13.8 mmol, 29%).

# Step 3. Synthesis of N-formyl-N-glycosyl- 1-methylcyclohexyl- tert-butylamide :

The synthesis of the 2,3,4-tri-O-pivaloyl-□-D-arabinosylamine was carried out according to the published procedure (Kunz. H.; Pfrengle, W.; Ruck, K.; Wilfried, S. *Synthesis* (1991) 1039-1042).

To a solution of 1-methylcyclohexylcarboxaldehyde (1.17 g, 8.34 mmol), 2,3,4-tri-O-pivaloyl-□-D-arabinosylamine (8.3 g, 20.7 mmol), formic acid (850 μL, 22.2 mmol) and tert-butylisocyanide (2.4 mL, 21.2 mmol) in tetrahydrofuran (170

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mL) at -30 °C was added 0.5M zinc chloride in tetrahydrofuran (41 mL, 20.57 mmol). The solution was stirred at -20 °C for 3 days, then concentrated. The residue was diluted with  $CH_2Cl_2$  (500 mL), washed with saturated sodium bicarbonate (2 x 500 mL), water (500 mL). The organic layer was dried, filtered and concentrated to give a clear oil. Flash chromatography (20% ethylacetate in hexanes) provided pure product (4.3 g, 6.6 mmol, 33%)

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# Step 4. Synthesis of (1-methylcyclohexyl)glycine:

A solution of the product obtained in step 3 above (4.3 g, 6.6 mmol) in dichloromethane (30 mL) and saturated anhydrous methanolic HCl (30 mL) was stirred overnight. The solution was concentrated and the residue was dissolved in water (100 mL) and washed with pentane (2 x 100 mL). The aqueous layer was concentrated and the residue was dissolved in 6N HCl (50 mL) and heated at reflux for 30 hours. The solution was concentrated to give the crude (1-methylcyclohexyl)glycine hydrochloride (790 mg, 3.82 mmol, 58%).

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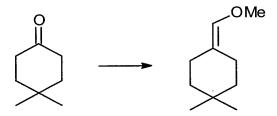
# Example XVII. Synthesis of (4,4-dimethylcyclohexyl)glycine:

#### Step 1. Synthesis of 4,4-dimethylcyclohexanone:

A mixture of 4,4-dimethylcyclohex-2-en-1-one (12 mL, 91.2 mmol) and Degussa type 10% Pd on carbon (2 g) was hydrogenated at 40 psi for 18 hours. The mixture was filtered and concentrated (<sup>1</sup>H NMR showed a mixture of ketone and alcohol in a 5:3 ratio). The mixture was dissolved in acetone (400 mL) and cooled to 0 °C. Jones reagent (40 mL) was added over 30 min and the cooling bath was removed. After 2 days the excess acetone was evaporated and the resulting residue was dissolved in water and diethylether. The ether layer was washed with water until colorless, dried, filtered and concentrated to give 4,4-dimethylcyclohexanone (7.4 g, 58.6 mmol, 64%).

# Step 2. Synthesis of the methyl enol ether of 4,4-

#### <u>dimethylcyclohexylcarboxaldehyde:</u>



To a solution of methoxymethyl triphenylphosphonium chloride (8.6 g) in tetrahydrofuran (125 mL) at 0 °C was added n-butyllithium (1.6M in hexanes, 14.3

mL) over 10 min. After 30 min the reaction mixture was cooled to –78 °C and a solution of 4,4-dimethylcyclohexanone (2.45 g, 19.1 mmol) in tetrahydrofuran (50 mL) was added over 20 min. After 1 hour the cooling bath was remove and the reaction was warmed slowly to 0 °C. The reaction was diluted with saturated ammonium chloride (50 mL), ethylacetate (100 mL) and hexanes (100 mL). The organic layer was washed with water and brine, dried filtered and concentrated. The residue was stirred with hexanes (70 mL) for 10 min and filtered. The filtrate was concentrated and chromatographed using 25% ethylacetate in hexanes to give the title compound (1.925 g, 12.5 mmol, 65%).

# 10 <u>Step 3: 4,4-dimethylcyclohexylcarboxaldehyde:</u>

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A solution of the methyl enol ether of 4,4-dimethylcyclohexylcarboxaldehyde (1.925 g, 12.5 mmol) (Step II above), tetrahydrofuran (100 mL) and 6M HCl (20 mL) was stirred at room temperature for 4 hours. The reaction mixture was diluted with hexanes, diethylether, brine and water. The organic layer was dried, filtered and concentrated to give 4,4-dimethylcyclohexylcarboxaldehyde (1.0 g, 7.1 mmol, 57%).

Step 4. Synthesis of N-formyl-N-glycosyl- 4,4-dimethylcyclohexyl- tert-butylamide :

To a solution of 4,4-dimethylcyclohexylcarboxaldehyde (1.17 g, 8.34 mmol), 2,3,4-tri-O-pivaloyl- $\alpha$ -D-arabinosylamine (3.43 g, 8.55 mmol), formic acid

(350 μL, 9.17 mmol) and tert-butylisocyanide (990 μL, 8.76 mmol) in THF (70 mL) at –30 °C was added 0.5M zinc chloride in tetrahydrofuran (17 mL, 8.5 mmol). The solution was stirred at –20 °C for 2 days, then concentrated. The residue was diluted with dichloromethane (200 mL), washed with saturated sodium bicarbonate (2 x 200 mL), water (200 mL). The organic layer was dried, filtered and concentrated to give a clear oil. Flash chromatography (20% ethylacetate in hexanes) provided pure product (2.1 g, 3.3 mmol, 39%) Step 5. Synthesis of (4,4-dimethylcyclohexyl)glycine:

A solution of the Ugi product obtained in step 4 above (2.1 g, 3.3 mmol) in dichloromethane (20 mL) and saturated anhydrous methanolic HCl (20 mL) was stirred overnight. The solution was concentrated and the residue was dissolved in water (100 mL) and washed with pentane (2 x 100 mL). The aqueous layer was concentrated and the residue was dissolved in 6N HCl (40 mL) and heated at reflux for 30 hours. The solution was concentrated to give the crude (1-methylcyclohexyl)glycine hydrochloride (300 mg, 1.36 mmol, 41%). Example XVIII. Synthesis of Boc-nVal-(CHOH)-Gly-OH:

Step 1. Preparation of Boc-norvalinol:

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To a solution of Boc-norvaline (25.0 g, 0.115 mol) in tetrahydrofuran (461 mL), cooled to 0°C, was added borane/tetrahydrofuran complex (461 mL of a 1.0M solution in tetrahydrofuran) dropwise. After 1h at 0°C, the solution was warmed to room temperature over a period of 1.5h. TLC indicated that the reaction was complete. Methanol was added to quench the reaction. The solution was concentrated to yield the title compound (22.56 g, 96%) as a foamy syrup. TLC of the products indicated satisfactory purity.  $R_f = 0.34$  (40% ethyl acetate/hexanes).

# 10 Step 2. Preparation Boc-norvalinal:

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To Boc-norvalinol (7.77 g, 38 mmol), in anhydrous dimethylsulfoxide (153 mL) and toluene (153 mL) was added EDC (73.32g, 382 mmol). After the solution was cooled to 0°C, dichloroacetic acid (15.8 mL, 191 mmol) was added dropwise. After addition was complete, the reaction was stirred for 15 min. The solution was allowed to warm to room temperature over a period of 2h. The reaction mixture was concentrated to remove the toluene, then dissolved in ethyl acetate. The solution was washed successively with 1N sodium bisulfate, saturated sodium bicarbonate and brine, dried over sodium sulfate, filtered and concentrated to afford crude Boc-norvalinal which was used directly in the next step. TLC R<sub>f</sub> = 0.84 (40% ethyl acetate/hexanes).

# Step 3. Synthesis of Boc-nVal-(CHOH)-Gly-OEt:

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To a solution of the crude Boc-norvalinal (4.18 g, 20.77 mmol) in dichloromethane (83 mL) was added ethylisocyanoacetate (2.72 ml, 24.93 mmol) and pyridine (6.72 ml, 83.09 mmol). After the solution was cooled to 0°C, trifluoroacetic acid (4.15 ml, 41.54 mmol) was added dropwise. After stirring for 1h, the solution was stirred at room temperature for 18 hours while allowing the solvent from the reaction mixture in an uncovered vessel to evaporate under ambient conditions. The reaction mixture was concentrated, then dissolved in ethyl acetate. The solution was washed successively with 1N sodium bisulfate, saturated sodium bicarbonate and brine, dried over sodium sulfate, filtered and then concentrated. The residue was purified by flash chromatography eluting with 20% to 40% ethylacetate/hexanes to afford 2.8 g of the title compound as a yellow syrup. Low resolution mass spectroscopy confirmed the presence of the desired product (MH<sup>+</sup> 333).

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#### Step 4. Synthesis of Boc-nVal-(CHOH)-Gly-OH:

The product obtained (Boc-nVal-(CHOH)-Gly-OEt) (1.52 g, 4.70 mmol) dissolved in ethanol (23 ml) was saponified with 1N lithium hydroxide (18.81 ml) for two hours at room temperature. The reaction mixture was acidified to pH  $\cong$  2 with Dowex® 50 WX8 ion exchange resin, stirred for 20 minutes and then filtered. The resin was washed well with ethanol and water and the combined filtrates were concentrated to a white foam (0.48 g, 33%).

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Example XVIV. Synthesis of (2R,3S,4S,5S)-tert-Butyl N-CBz-3-amino-2-hydroxy-4,5 methylene-hexanoate:

Step 1:

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To a solution of tert-Butyl diethylphosphonoacetate (4.7 mL, 20 mmol) dissolved in THF (50 mL) at -78° C was added 1.6M n-butyl lithium in hexanes (12.4 mL). After 30 minutes (1S, 2S)-2-methylcyclopropylcarboxaldehyde (1 g, 12 mmol) (Barrett, A. G. M.; Doubleday, W. W.; Kasdorf, K.; Tustin, G. J., *J. Org. Chem.* (1996) *61*, 3280) in diethyl ether (100 mL) was added over 10 min. The reaction was warmed to 0° C for 2 hours and to 6 °C for 12 hours. The reaction was quenched with saturated ammonium chloride (20 mL) and the organic layer was separated, washed with 50 mL brine and dried over sodium sulfate, filtered and concentrated to afford 3.5 g of a clear oil. Flash chromatography (20% ethylacetate in hexanes) afforded pure unsaturated tert-butylester (1.4 g). Step 2:

To a solution of benzyl carbamate (3.55g, 23.5 mmols) in n-propanol (24 mL) was added a solution of sodium hydroxide (900 mg ,22.7 mmol)in water (48 mL), followed by tert-butylhypochlorite (2.57 mL, 22.7 mmol). After 15 minutes the reaction was cooled to 0 °C and (DHQ)<sub>2</sub>PHAL (350 mg, 0.45 mmol) was added in n-propanol (24 mL), followed by unsaturated tert-butyl ester (1.4 g) from above in n-propanol (48 mL). Finally potassium osmate (110 mg, 0.30 mmol) in water (2 mL) was added and the solution very rapidly developed a dark green color which persisted for 4 hours. After 6 hours saturated sodium sulfate (50 mL) was added and the mixture extracted with ethyl acetate (2 x 50 mL). The combined organic layers were washed with brine (30 mL), dried over sodium sulfate, filtered and concentrated. Flash chromatography with 20% ethylacetate in hexanes afforded the desired cBz protected amino tert-butylester as a white solid (316 mg).

Step 3:

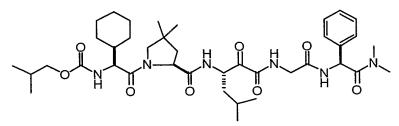
A mixture of CBz protected amino tert-butylester (316 mg, 0.9 mmol) and 32mg 10% palladium on carbon in 9 mL methanol was hydrogenated for 8 hours. The mixture was filtered and concentrated to afford the free amine as a clear oil (195 mg).

Example XX. Synthesis of 1R,2-dimethylPropyl chloroformate:

To the commercially available 2R-hydroxy-3-methylbutane (410 mg, 4.65 mmol) was added a solution of 20% phosgene in toluene (1 mL, 2 mmol). The solution was stirred for 6 hours to generate the chloroformate (2 mmol) which was reacted directly and immediately with the desired amine. The S-isomer was synthesized by the same procedure.

15 II) Representative solution phase synthesis of HCV inhibitors

Example XXI. Solution phase synthesis of iBoc-G(Chx)-Pro(4,4-dimethyl)-Leu(CO)-Gly-Phg-dimethylamide:



Step 1. Synthesis of tert-butyloxycarbonyl-leucinal (Boc-Leu-CHO):

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To a solution of the commercially available (Advanced Chem Tech) Boc-L-leucinol (0.78 g, 3.6 mmol) in anhydrous dichloromethane (17.5 ml) was added triethyl amine (2 ml, 14.36 mmol) and the mixture was cooled to 0 °C. Dimethyl sulfoxide (17.5 ml) was added followed by sulfur trioxide pyridine complex (2.3 g, 14.36 mmol) and the reaction was stirred for two hours. TLC in 1:1 ethylacetate: hexanes confirmed the completion of the reaction. The reaction mixture was concentrated and the remaining residue diluted with ethylacetate. The ethylacetate layer was washed with 1M hydrochloric acid (2  $\times$  75 ml) followed by saturated sodium bicarbonate solution (2  $\times$  75 ml) and brine (75 ml). The organic layer was dried (sodium sulfate), filtered and concentrated to yield 775 mg of product.

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Step 2. Synthesis of Boc-2-hydroxy-3-amino-5-methyl hexanoyi-glycine ethyl ester (Boc-Leu-(CHOH)-Gly-OEt):

To a solution of Boc-Leucine aldehyde (0.77 g, 3.59 mmol) in anhydrous dichloromethane (24 ml) was added anhydrous pyridine (1.16 ml, 14.36 mmol) and ethylisocyanoacetate (0.4 ml, 4.66 mmol). The reaction mixture was cooled to 0 °C and trifluoroacetic acid (0.55 ml, 7/18 mmol) was added over two minutes. The reaction mixture was capped and stirred at 4 °C for four days, and at room temperature for one day. The reaction mixture was diluted with dichloromethane (350 ml) and washed twice each with 75 ml portions of 1M hydrochloric acid, saturated sodium bicarbonate and brine. The organic layer was dried, filtered and concentrated. The residue obtained was subjected to flash chromatography in a

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 $2" \times 6"$  silica gel column using 10% ethylacetate in hexanes (800 ml) followed by 1:1 ethylacetate in hexanes (800 ml). The fractions corresponding to the product were pooled and concentrated to yield 980 mg (79%) product.

# Step 3. Synthesis of Boc-Leu-(CHOH)-Gly-OH:

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To a solution of Boc-Leu-(CHOH)-Gly-Oet (0.98 g, 2.83 mmol) in ethanol (11.3 ml) was added 2M lithium hydroxide (4.25 ml) and the reaction was stirred for five hours at room temperature. The ethanol was removed under reduced pressure and the aqueous layer was diluted with ethylacetate. The organic layer was washed with 1M hydrochloric acid followed by brine, dried, filtered and concentrated to yield 775 mg (86%) product as a white solid.

# Step 4. Synthesis of Boc-Leu-(CHOH)-Gly-Phg-dimethylamide:

To a solution of Boc-Leu-(CHOH)-Gly-OH (0.37 g, 1.18 mmol) in acetonitrile (23 ml) was added successively phenylglycine dimethylamide (obtained in Example XV, Step 2), EDC (0.34 g, 1.76 mmol), N-hydroxybenzotriazole (HOBt)(0.18 g, 1.18 mmol) and diisopropylethylamine (DIEA) (0.82 ml, 4.7 mmol) and the reaction was stirred for 18 hours at room temperature. The reaction mixture was concentrated and the remaining residue was diluted with ethylacetate and washed successively with two 75 ml portions of 1M hydrochloric acid, saturated sodium bicarbonate and brine. The organic layer was then dried filtered and concentrated. The crude product was subjected to

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flash chromatography in a 2"  $\times$  6" silica gel column using 4:1 ethylacetate: hexanes (700 ml) followed by ethylacetate (1000 ml) and 10% methanol in dichloromethane (600 ml). The fractions corresponding to the product were pooled and concentrated to yield 445 mg (80%) white solid.

5 Step 5. Synthesis of H-Leu-(CHOH)-Gly-Phg-dimethylamide trifluoroacetate salt:

To a solution Boc-Leu-(CHOH)-Gly-Phg-dimethylamide (70 mg, 0.146 mmol) in dichloromethane (1 ml) was added trifluoroacetic acid (1 ml) and the reaction was stirred at room temperature for 1 hour. The reaction mixture was concentrated and taken to the next step without further purification.

Step 6. Synthesis of iBoc-G(Chx)-Pro(4,4-dimethyl)-Leu-(CHOH)-Gly-Phg-dimethylamide:

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To a solution of iBoc-G(Chx)-P(4,4-diMe)-OH (Example XIV, step 2)(53 mg, 0.148 mmol) in acetonitrile (3 ml) was added successively TFA•2HN-Leu(CHOH)-Gly-Phg-NMe2 (61 mg, 0.148 mmol), N-Hydroxybenzotriazole (HOBt) (23 mg, 0.148 mmol), TBTU (71.5 mg, 0.222 mmol and diisopropylethyl amine (103 □l,

0.593 mmol). The reaction was stirred at room temperature for 18 hours and concentrated. The remaining residue was dissolved in ethylacetate and washed with 1M hydrochloric acid ( $2 \times 5$  ml), saturated sodium bicarbonate solution ( $2 \times 5$  ml), and brine ( $2 \times 5$  ml). The organic layer was dried, filtered and concentrated. The product (100 mg) was taken to the next step without further purification. Step 7. Synthesis of iBoc-G(Chx)-Pro(4,4-dimethyl)-Leu-(CO)-Gly-Phg-dimethylamide:

To a solution of iBoc-G(Chx)-Pro(4,4-dimethyl)-Leu-(CHOH)-Gly-Phg-dimethylamide (30 mg, 0.04 mmol) in dichloromethane (1 ml) was added the commercially available Dess-Martin reagent (Omega Chemical Company Inc.)(67.8 mg, 0.16 mmol) and the reaction was stirred at room temperature for 90 minutes. The reaction mixture was concentrated and the remaining residue was stirred in 5% sodium thiosulfate. It was then diluted with dichloromethane and the layers were separated. The organic layer was washed with sodium thiosulfate (4  $\times$  3 ml), followed by water and brine. The organic layer was dried over sodium sulfate, filtered and concentrated. The crude product was dissolved in hexanes and isopropyl alcohol and was subjected to HPLC purification using a normal phase Kromasil 5 silica column (Phenomenex, 250  $\times$  21.20 mm, 100 angstrom pore size, 5  $\mu$ m gel particles) eluting with a 30 minutes gradient consisting of 0 to

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25% isopropyl alcohol in hexanes (25 ml/minutes). The fractions corresponding to the product were pooled and concentrated. Lyophilization from water yielded 6.7 mg white powder. Low resolution mass spectra confirmed the desired mass (MH<sup>+</sup> = 741.4).

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# III) Solid Phase Synthesis:

Solid-phase synthesis is useful for the production of small amounts of certain compounds of the present invention. As with the conventional solid-phase synthesis of peptides, reactors for the solid-phase synthesis of peptidyl ketoamides are comprised of a reactor vessel with at least one surface permeable to solvent and dissolved reagents, but not permeable to synthesis resin of the selected mesh size. Such reactors include glass solid phase reaction vessels with a sintered glass frit, polypropylene tubes or columns with frits, or reactor Kans<sup>TM</sup> made by Irori Inc., San Diego CA. The type of reactor chosen depends on volume of solid-phase resin needed, and different reactor types might be used at different stages of a synthesis. The following procedures will be referenced in the subsequent examples:

Procedure A: Coupling reaction: To the resin suspended in N-methylpyrrolidine (NMP) (10-15 mL/ gram resin) was added Fmoc-amino acid (2 eq), HOAt (2 eq), 20 HATU (2 eq) and diisopropylethylamine (4 eq). The mixture was let to react for 4-48 hours. The reactants were drained and the resin was washed successively with dimethylformamide, dichloromethane, methanol, dichloromethane and diethylether (use 10-15 mL solvent/ gram resin). The resin was then dried in vacuo.

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Procedure B: Fmoc deprotection: The Fmoc-protected resin was treated with 20% piperidine in dimethylformamide (10 mL reagent/ g resin) for 30 minutes. The reagents were drained and the resin was washed successively with

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dimethylformamide, dichloromethane, methanol, dichloromethane and diethyl ether (10 mL solvent/ gram resin).

<u>Procedure C:</u> Boc deprotection: The Boc-protected resin was treated with a 1:1 mixture of dichloromethane and trifluoroacetic acid for 20-60 minutes (10 mL solvent/ gram resin). The reagents were drained and the resin was washed successively with dichloromethane, dimethylformamide, 5% diisopropylethylamine in dimethylformamide, dimethylformamide, dichloromethane and dimethylformamide (10 mL solvent/ gram resin).

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Procedure D: Semicarbazone hydrolysis: The resin was suspended in the cleavage cocktail (10 mL/ g resin) consisting of trifluoroacetic acid: pyruvic acid: dichloromethane: water 9:2:2:1 for 2 hours. The reactants were drained and the procedure was repeated three more times. The resin was washed successively with dichloromethane, water and dichloromethane and dried under vacuum. Procedure E: HF cleavage: The dried peptide-nVal(CO)-G-O-PAM resin (50 mg) was placed in an HF vessel containing a small stir bar. Anisole (10% of total volume) was added as a scavenger. In the presence of glutamic acid and cysteine amino acids, thioanisole (10%) and 1,2-ethanedithiol (0.2%) were also added. The HF vessel was then hooked up to the HF apparatus (Immuno Dynamics) and the system was flushed with nitrogen for five minutes. It was then cooled down to -70°C with a dry ice/ isopropanol bath. After 20 minutes, HF was distilled to the desired volume (10 mL HF/ g resin). The reaction was let to proceed for one and a half hour at 0°C. Work up consisted of removing all the HF using nitrogen. Dichloromethane was then added to the resin and the mixture was stirred for five minutes. This was followed by the addition of 20% acetic acid in water (4 mL). After stirring for 20 minutes, the resin was filtered using a fritted funnel and the dichloromethane was removed under reduced pressure. The remaining residue and the mixture was washed with hexanes (2x) to remove scavengers. Meanwhile, the resin was soaked in 1 mL methanol. The aqueous

layer (20% HOAc) was added back to the resin and the mixture was agitated for five minutes and then filtered. The methanol was removed under reduced pressure and the aqueous layer was lyophilized. The peptide was then dissolved in 10-25% methanol (containing 0.1% trifluoroacetic acid) and purified by reverse phase HPLC.

Example XXII: Representative solid phase Synthesis of Hep C inhibitors: (iBoc-G(Chx)-P(4t-NHSO2Ph)-nV-(CO)-G-G(Ph)-NH2)

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# Step 1. Synthesis of Fmoc-nV-(dpsc)-Gly-OH:

# A) Synthesis of allyl isocyanoacetate (steps a-b below):

a) Synthesis of isocyanoacetic acid potassium salt:

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Ethyl isocyanoacetate (96.6 ml, 0.88 mol) was added dropwise to a chilled solution of ethanol (1.5 L) and potassium hydroxide (59.52 g, 1.0 mol). The reaction was slowly warmed to room temperature. After two hours the precipitated product was filtered on a glass funnel and washed with several portions of chilled ethanol. The potassium salt of isocyanoacetic acid thus obtained was dried in vacuo to a golden-brown solid (99.92 g, 91.8%).

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b) Synthesis of allyl isocyanoacetate:

To the product of part a (99.92 g, 0.81 mol) dissolved in acetonitrile (810 ml) was added allyl bromide (92 ml, 1.05 mol). After heating at reflux for four hours a dark brown solution was obtained. The reaction mixture was concentrated and the remaining residue was dissolved in ether (1.5 L) and washed three times with water (500 ml). The organic layer was dried, filtered and concentrated to a dark brown syrup. The crude was purified by vacuum distillation at 7 mm Hg (98°C) to a clear oil (78.92 g, 78%). NMR  $\delta$  ppm (CDCl<sub>3</sub>): 5.9 (m, 1 H), 5.3 (m, 2H), 4.7 (d, 2H), 4.25 (s, 2H).

# B) Synthesis of 9-fluorenylmethoxycarbonyl-norvalinal (steps a-c below):

a) Synthesis of 9-fluorenylmethoxycarbonyl-L-norvaline methyl ester (Fmoc-nVal-OMe):

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To a chilled solution of the commercially available Fmoc-norvaline (25 g, 73.75 mmol) in anhydrous methanol (469 ml) was added thionyl chloride (53.76 ml, 737.5 mmol) over one hour. TLC in ethylacetate taken an hour later confirmed the completion of the reaction (R<sub>f</sub> = 0.85). The reaction mixture was concentrated and the remaining residue was dissolved in ethylacetate. The organic layer was washed with several 200 ml portions of saturated sodium bicarbonate followed by brine. The organic layer was dried, filtered and concentrated to afford FmocnorVal-OMe) as a white solid (26.03 g) in quantitative yield. NMR  $\delta$  ppm (CD<sub>3</sub>OD): 7.7 (m, 2H), 7.6 (m, 2H), 7.4 (m, 2H), 7.3 (m, 2H), 4.3 (m, 2H), 4.1 (m, 2H), 3.7 (s, 3H), 1.7 (m, 1H), 1.6 (m, 1H), 1.4 (m, 2H), 0.95 (t, 3H).

b) Synthesis of 9-fluorenylmethoxycarbonyl-norvalinol (Fmoc-nValinol):

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To Fmoc-nVal-OMe (26.03 g, 73.75 mmol) in tetrahydrofuran (123 ml) and methanol (246 ml) was added calcium chloride (16.37 g, 147.49 mmol). The reaction mixture was cooled to  $0^{\circ}$ C and sodium borohydride (11.16 g, 294.98 mmol) was added in several batches. To the thick paste obtained, methanol (500 ml) was added and the reaction was let to stir at room temperature for 90 minutes. TLC in 2:3 ethylacetate: hexanes confirmed the completion of the reaction (R<sub>f</sub> = 0.25). The reaction was quenched with the slow addition of water (100 ml) at  $0^{\circ}$ C. The methanol was removed under reduced pressure and the remaining aqueous phase was diluted with ethylacetate. The organic layer was washed with water (3 × 500 ml), saturated sodium bicarbonate (3 × 500 ml) and brine (500 ml). The organic layer was dried over sodium sulfate, filtered and concentrated to a white solid (21.70 g, 90.5%). NMR  $\delta$  ppm (CD3OD): 7.8 (m, 2H), 7.7 (m, 2H), 7.4 (m, 2H), 7.3 (m, 2H), 4.3-4.5 (m, 2H), 4.2 (m, 1H), 3.6 (s, 1H), 3.5 (s, 2H), 1.5 (m, 1H), 1.3-1.4 (m, 3H), 0.99 (m, 3H).

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c) Synthesis of 9-fluorenylmethoxycarbonyl-norvalinal (Fmoc-nVal-CHO):

To a solution of Fmoc-norValinol (21.70 g, 66.77 mmol) in dichloromethane (668 ml) was added triethylamine (37.23 ml, 267 mmol) and the solution was cooled to  $0^{\circ}$ C. A suspension of pyridine sulfur trioxide complex (42.51 g, 267 mmol) in dimethylsulfoxide (96 ml) was added to the chilled solution. After one hour, TLC in 2:3 ethylacetate: hexanes confirmed the completion of the reaction. The dichloromethane was removed under reduced pressure and the remaining residue was dissolved in ethylacetate and washed with water (2 × 50 ml), 1N

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saturated sodium bisulfate ( $2 \times 50$  ml), saturated sodium bicarbonate ( $2 \times 50$  ml) and brine (50 ml). The organic layer was concentrated to yield a white solid. Theoretical yield (21.57 g) was assumed and the reaction was taken to the next step without further purification.

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C) Synthesis of diphenylmethyl semicarbazide (dpsc) trifluoroacetate salt (steps a-b below):

a) Synthesis of Boc-semicarbazid-4-yl diphenylmethane

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To a solution of carbonyldiimidazole (16.2 g, 0.10 mole) in dimethylformamide (225 ml) was added a solution of t-butyl carbazate (13.2 g, 0.100 mol) in dimethylformamide (225 ml) dropwise over 30 minutes. Diphenylmethylamine (18.3 g, 0.10 mol) was added next over 30 minutes. The reaction was allowed to stir at room temperature for one hour. Water (10 mL) was added and the mixture was concentrated to about 150 mL under reduced pressure. This solution was poured into water (500 mL) and extracted with ethyl acetate (400 mL). The ethylacetate phase was washed two times each with 75 mL 1N HCl, water, saturated sodium bicarbonate solution and sodium chloride, and dried with magnesium sulfate. The mixture was filtered and the solution was concentrated to give 29.5 g (85% yield) of a white foam. This material could be purified by recrystallization from ethyl acetate/hexane, but was pure enough to use directly in the next step: mp 142-143°C. <sup>1</sup>H NMR (CDCl3) d 1.45 (s, 9H), 6.10 (dd, 2H), 6.42 (s, 1H), 6.67 (bs, 1H), 7.21-7.31 (m, 10H). Anal calculated for C19H23N3O3: C, 66.84; H, 6.79; N, 12.31. Found: C, 66.46; H, 6.75; N; 12.90.

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b) Synthesis of diphenylmethyl semicarbazide (dpsc) trifluoroacetate salt

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A solution of Boc-semicarbazid-4-yl diphenylmethane (3.43 g, 10 mmol) in dichloromethane (12.5 mL) was treated with 12.5 mL of trifluoroacetic acid at room temperature and stirred for 30 min. The solution was added dropwise to 75 mL of ether and the resulting solid (2.7 g, 80%) was collected by filtration. mp 182-184°C. <sup>1</sup>H NMR (CD<sub>3</sub>OD) d 6.05 (s, 1H), 7.21-7.35 (m, 10H). <sup>13</sup>C NMR (CD<sub>3</sub>OD) d 57.6, 118.3 (q, CF<sub>3</sub>), 126.7, 127.9, 141.6, 156.9, 160.9 (q, CF<sub>3</sub>CO<sub>2</sub>H).

# 10 D) Synthesis of Fmoc-nVal-(CHOH)-Gly-Oallyl:

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To a solution of Fmoc-nVal-CHO (Step IB) (5.47 g, 16.90 mmol) in dichloromethane (170 ml) was added allyl isocyanoacetate (Step IA) (2.46 ml, 20.28 mmol) and pyridine (5.47 ml, 67.61 mmol). The reaction mixture was cooled to 0°C and trifluoroacetic acid (3.38 ml, 33.80 mmol) was added dropwise. The reaction was stirred at 0°C for 1h, and then at room temperature for 48 hours. TLC taken in ethylacetate confirmed the completion of the reaction. The reaction mixture was concentrated and subjected to flash chromatography using 20% to 70% ethylacetate in hexanes. Fractions containing the desired product were pooled and concentrated to a white foam (6.88 g, 87.3%). TLC in 50:50 ethylacetate shows one spot (Rf = 0.37). NMR  $\delta$  ppm (CD3OD): 7.8 (m, 2H), 7.65 (m, 2H), 7.4 (m, 2H), 7.3 (m, 2H), 5.9 (m, 1H), 5.1-5.4 (m, 2H), 4.55-4.65 (m, 2H),

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4.3-4.4 (m, 2H), 4.15-4.25 (m, 1H), 4.01 (s, 1H), 3.9-4.0 (m, 3H), 1.5-1.6 (m, 2H), 1.35-1.45 (m, 3H), 0.9 (m, 3H).

#### E) Synthesis of Fmoc-nVal-(CO)-Gly-Oallyl:

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to a solution of Fmoc-nVal-(CHOH)-Gly-Oallyl (Step D) (5.01 g, 10.77 mmol) in dimethylsulfoxide (100 ml) and toluene (100 ml) was added EDC (20.6 g, 107.7 mmol). The reaction mixture was cooled to 0 °C and dichloroacetic acid (4.44 ml, 53.83 mmol) was added dropwise. The reaction was stirred for 15 minutes at 0 °C and 1h at room temperature. After cooling back to 0 °C, water (70 ml) was added and the toluene was removed under reduced pressure. The remaining residue was diluted with ethylacetate and washed several times with a saturated sodium bicarbonate solution followed by 1N sodium bisulfate and brine. The organic layer was dried over sodium sulfate, filtered and concentrated. The theoretical yield of 4.99 g was assumed and the reaction was taken to the next step without further purification. TLC in 50:50 ethylacetate shows one spot ( $R_{\rm f}$  = 0.73).

### F) Synthesis of Fmoc-nVal-(dpsc)-Gly-Oallyl:

To a solution of Fmoc-nVal-(CO)-Gly-Oallyl (Step E) (4.99 g, 10.75 mmol) in ethanol (130 ml) and water (42 ml) was added diphenylmethyl semicarbazide (dpsc) trifluoroacetate salt (Step IC) (7.6 g, 21.5 mmol) and sodium acetate  $^{\circ}3H_2O$  (1.76 g, 12.9 mmol), successively . The reaction mixture was heated at

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reflux for 90 minutes. The completion of reaction was confirmed by TLC taken in 1:1 ethylacetate: hexane. Ethanol was removed under reduced pressure and the remaining residue was dissolved in ethylacetate and washed with 1N sodium bisulfate ( $2 \times 10$  ml), saturated sodium bicarbonate ( $2 \times 10$  ml), followed by brine (10 ml). The organic layer was dried, filtered and concentrated. The resulting residue was purified by flash chromatography in 20% to 50% ethylacetate in hexanes to give a white solid (5.76g, 78%). TLC in 50:50 ethylacetate: hexanes showed two spots (cis and trans isomers) with Rf = 0.42 and 0.5.

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#### G) Synthesis of Fmoc-nVal-(dpsc)-Gly-OH:

To a solution of Fmoc-nVal-(dpsc)-Gly-Oallyl (Step IG) (4.53 g, 6.59 mmol) in tetrahydrofuran (300 ml) was added dimedone (4.62 g, 32.97 mmol) followed by tetrakis(triphenylphosphine) palladium(0) catalyst (0.76 g, 0.66 mmol). The completion of the reaction was confirmed by TLC after 90 minutes using 9:1 dichloromethane: methanol. The reaction mixture was concentrated and the remaining residue was dissolved in ethylacetate and washed three times with 50 ml portions of 0.1M potassium biphosphate. The organic layer was then treated with 50 ml sodium bisulfite and the two phase system was stirred for 15 minutes. The phases were separated and the procedure was repeated twice more. The organic layer was dried and concentrated and subjected to flash chromatography with 20% to 100% ethylacetate in hexanes. This was followed with 9:1 dichloromethane: methanol solution. The fractions corresponding to the pure product were pooled and concentrated to obtain a white solid (3.99 g, 94%). TLC

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in 9:1 dichloromethane: methanol showed two spots (cis and trans isomers). NMR  $\delta$  ppm (CD<sub>3</sub>OD): 7.75 (m, 2H), 7.6 (m, 3H), 7.2-7.4 (m, 14H), 6.1-6.2 (m, 1H), 4.25-4.4 (m, 2H), 4.1-4.2 (m, 2H), 3.85 (s, 2H), 1.6-1.8 (m, 2H), 1.3-1.5 (m, 2H), 0.95 (t, 3H).

Step 2. Synthesis H-Phg-MBHA resin:

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The commercially available MBHA resin (2.6 g, 1.12 mmol/g, 2.91 mmol) was transferred to a 250 mL fritted solid phase reaction vessel equipped with a nitrogen inlet. It was then washed thoroughly with 30 ml portions of dichloromethane, methanol, dimethylformamide and dichloromethane and coupled over 18 hours to the commercially available Fmoc-Phg-OH (2.17 g, 5.82 mmol) according Procedure A with 99.82% efficiency. The resin was then subjected to Fmoc deprotection according to procedure B. A qualitative ninhydrin assay on a small aliquot gave dark blue resin and solution, indicating a successful reaction.

#### Step 3. Synthesis of H-nVal(dpsc)-Gly-Phg-MBHA resin:

The resin obtained in step II (2.6 g, 0.8 mmol/g, 2.91 mmol) was reacted with Fmoc-nVal-(dpsc)-Gly-OallyI (Step IG) (5.82 mmol, 3.77 g) according to

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Procedure A. After 18 hours, quantitative ninhydrin analysis indicated 99.91% coupling efficiency. The resin was subjected to Fmoc deprotection according to procedure B. A qualitative ninhydrin assay on a small aliquot gave dark blue resin and solution, indicating a successful reaction.

Step 4. Synthesis of Boc-Pro(4t-NHFmoc)-nVal(dpsc)-Gly-Phg-MBHA resin:

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The compound H-nVal(dpsc)-Gly-Phg-MBHA resin (Step 3 above) (600 mg, 0.8 mmol/g, 0.67 mmol) was transferred to a fritted polypropylene tube and was coupled to Boc-Pro(4t-NHFmoc)-OH (Example VI, Step 3) (610 mg, 1.34 mmol) according to procedure A. After 18 hours, quantitative ninhydrin analysis indicated 99.96% coupling efficiency.

Step 5. Synthesis of Boc-Pro(4t-NH<sub>2</sub>)-nVal(dpsc)-Gly-Phg-MBHA resin:

The resin from the previous step (Boc-Pro(4t-NHFmoc)-nVal(dpsc)-Gly-Phg-MBHA resin) was subjected to Fmoc deprotection according to procedure B. A qualitative ninhydrin assay on a small aliquot gave dark blue resin and solution, indicating a successful reaction.

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#### Step 6. Synthesis of Boc-Pro(4t-NHSO<sub>2</sub>Bn)-nVal(dpsc)-Gly-Phg-MBHA resin:

To the resin obtained from the previous step (Boc-Pro(4t-NH<sub>2</sub>)-nVal(dpsc)-Gly-Phg-MBHA resin) (0.2 g, 0.22 mmol) suspended in NMP (2 ml) was added 2,4,6-collidine (0.24 ml, 1.79 mmol) and benzenesulfonyl chloride and the reaction was shaken for 18 hours. The solvent was drained and the resin was washed thoroughly with 2 ml portions of dichloromethane, methanol, dimethylformamide and dichloromethane. Qualitative ninhydrin analysis showed colorless beads and solution indicating a successful reaction.

# Step 7. Synthesis of Fmoc-G(Chx)-Pro(4t-NHSO<sub>2</sub>Bn)-nVal(dpsc)-Gly-Phg-MBHA resin:

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The resin obtained in the previous step (Boc-Pro(4t-NHSO<sub>2</sub>Bn)-nVal(dpsc)-Gly-Phg-MBHA resin) was subjected to the Boc deprotection procedure according to Procedure C. Fmoc-G(Chx) (0.17 g, 0.45 mmol) was then coupled according to procedure A. After 18 hours qualitative ninhydrin analysis showed colorless beads and the quantitative ninhydrin analysis indicated 99.79% coupling efficiency.

<u>Step 8. Synthesis of iBoc-G(Chx)-Pro(4t-NHSO2Bn)-nVal(dpsc)-Gly-Phg-MBHA</u> resin:

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The resin obtained in the previous step (Fmoc-G(Chx)-Pro(4t-NHSO2Bn)-nVal(dpsc)-Gly-Phg-MBHA resin) was subjected to Fmoc deprotection according to procedure B. A ninhydrin assay on a small aliquot gave dark blue resin and solution, indicating a successful reaction. To the resin (0.2 g, 0.22 mmol) suspended in 2 ml NMP was added isobutylchioroformate (0.12 ml, 0.90 mmol) followed by diisopropylethylamine (0.31 ml, 1.79 mmol), and the reaction mixture was shaken for 18 hours at room temperature. Qualitative ninhydrin analysis showed colorless beads and solution indicating a successful reaction.

# Step 9. Synthesis of iBoc-G(Chx)-Pro(4t-NHSO2Bn)-nVal(CO)-Gly-Phg-MBHA resin:

The compound of the previous step (iBoc-G(Chx)-Pro(4t-NHSO2Bn)-nVal(dpsc)-Gly-Phg-MBHA resin) (200 mg) was subjected to semicarbazone hydrolysis Procedure D.

# Step 10. Synthesis of Synthesis of iBoc-G(Chx)-Pro(4t-NHSO2Bn)-nVal(CO)-Gly10 Phg-NH<sub>2</sub>:

The resin of the previous step (iBoc-G(Chx)-Pro(4t-NHSO<sub>2</sub>Bn)-nVal(CO)-Gly-Phg-MBHA resin) (100 mg) was subjected to HF cleavage condition (Procedure E) to yield the desired crude product. The material was purified by HPLC using a 2.2 × 25 cm reverse phase column, containing a C-18 resin comprised of 10 micron size gel particles with a 300 angstrom pore size, eluting

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with a gradient using 20-50% acetonitrile in water. Analytical HPLC using a  $4.6 \times 250$  mm reverse phase column, containing a C-18 resin comprised of 5 micron size gel particles with a 300 angstrom pore size, eluting with 25-75% acetonitrile (containing 0.1% trifluoroacetic acid) showed one peak at 13.5 minutes. Low resolution mass spectrum confirmed the desired mass (MH $^+$  826.4).

### IV. Additional Compounds Prepared by Solution Phase Synthesis:

Representative procedures to prepare additional inventive compounds are shown below, and the compounds prepared by such procedures are listed in **Tables 5 and 6**.

#### 10 Example XXIII : Preparation of a Compound of Formula XXIII:

XXIII

<u>Step 1.</u>

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A stirred solution of ketimime **XXIIIa** (50 g, 187.1 mmol) under  $N_2$  in dry THF (400 mL) was cooled to -78  $^{0}$ C and treated with 1 M solution of K- $^{t}$ BuO (220 mL, 1.15 equiv.) in THF. The reaction mixture was warmed to 0  $^{0}$ C and stirred for 1 h and treated with bromomethyl cyclobutane (28 mL, 249 mmol). The reaction

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mixture was stirred at room temperature for 48 h and concentrated in vacuo. The residue was dissolved in Et<sub>2</sub>O (300 mL) and treated with aq. HCI (2 M, 300 mL) The resulting solution was stirred at room temperature for 5 h and extracted with Et<sub>2</sub>O (1 L). The aqueous layer was made basic to pH ~12-14 with NaOH (50 % aq.) and extracted with CH<sub>2</sub>Cl<sub>2</sub> (3x300 mL). The combined organic layers were dried (MgSO<sub>4</sub>), filtered, and concentrated to give pure amine (XXIIIb, 18 g) as a colorless oil.

#### Step 2.

$$H_2N$$
  $OC_2H_5$   $OC_2H_5$ 

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A solution of amine **XXIIIb** (18g, 105.2 mmol) at 0 °C in CH<sub>2</sub>Cl<sub>2</sub> (350 mL) was treated with di-tert-butyldicarbonate (23 g, 105.4 mmol) and stirred at rt. for 12 h. After the completion of the reaction (TLC), the reaction mixture was concentrated in vacuo and the residue was dissolved in THF/H<sub>2</sub>O (200 ml, 1:1) and treated with LiOH•H<sub>2</sub>O (6.5 g, 158.5 mmol) and stirred at room temperature for 3 h. The reaction mixture was concentrated and the basic aqueous layer was extracted with Et<sub>2</sub>O. The aqueous layer was acidified with conc. HCl to pH~1-2 and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layers were dried (MgSO<sub>4</sub>), filtered, and concentrated in vacuo to yield XXIIIc as a colorless viscous oil which was used for next step without any further purification. Step 3.

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A solution of acid **XXIIIc** (15.0 g, 62 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (250 mL) was treated with BOP reagent (41.1 g, 93 mmol), N-methyl morpholine (27 mL), N,O-dimethyl hydroxylamine hydrochloride (9.07 g, 93 mmol) and stirred overnight at rt. The reaction mixture was diluted with 1 N aq. HCl (250 mL), and the layers were separated and the aqueous layer was extracted with CH<sub>2</sub>Cl<sub>2</sub> (3x300 ml). The combined organic layers were dried (MgSO<sub>4</sub>), filtered and concentrated in *vacuo* and purified by chromatography (SiO<sub>2</sub>, EtOAc/Hex 2:3) to yield the amide **XXIIId** (15.0 g) as a colorless solid.

10 Step 4.

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treated dropwisely with a solution of LiAlH<sub>4</sub> (1M, 93 mL, 93 mmol) at 0 °C. The reaction mixture was stirred at room temperature for 1 h and carefully quenched at 0 °C with a solution of KHSO<sub>4</sub> (10% aq.) and stirred for 0.5 h. The reaction mixture was diluted with aq. HCl (1 M, 150 mL) and extracted with CH<sub>2</sub>Cl<sub>2</sub> (3x200 mL), The combined organic layers were washed with aq. HCl (1 M), saturated

NaHCO<sub>3</sub>, brine, and dried (MgSO<sub>4</sub>). The mixture was filtered and concentrated in *vacuo* to yield **XXIIIe** as a viscous colorless oil (14 g).

Step 5.

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A solution of the aldehyde **XXIIIe** (14 g, 61.6 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (50 mL), was treated with Et<sub>3</sub>N (10.73 mL, 74.4 mmol), and acetone cyanohydrin (10.86 g, 127.57 mmol) and stirred at room temperature for 24 hrs. The reaction mixture was concentrated in *vacuo* and diluted with aq. HCl (1 M, 200 mL) and extracted into CH<sub>2</sub>Cl<sub>2</sub> (3x200 mL). The combined organic layer were washed with H<sub>2</sub>O, brine, dried (MgSO<sub>4</sub>), filtered, concentrated in *vacuo* and purified by chromatography (SiO<sub>2</sub>, EtOAc/Hex 1:4) to yield **XXIIIf** (10.3 g) as a colorless liquid Step 6.

Methanol saturated with HCl\*, prepared by bubbling HCl gas to CH<sub>3</sub>OH (700 ml) at 0 °C, was treated with cyanohydrin **XXIIIf** and heated to reflux for 24 h. The reaction was concentrated in *vacuo* to yield **XXIIIg**, which was used in the next step without purification.

\* Alternatively 6M HCl prepared by addition of AcCl to dry methanol can also be used.

20 Step 7.

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A solution of the amine hydrochloride **XXIIIg** in CH<sub>2</sub>Cl<sub>2</sub> (200 mL) was treated with Et<sub>3</sub>N (45.0 mL, 315 mmol) and Boc<sub>2</sub>O (45.7g, 209 mmol) at –78 °C. The reaction mixture was then stirred at room temperature overnight and diluted with HCl (2 M, 200 mL) and extracted into CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layer were dried (MgSO<sub>4</sub>) filtered, concentrated in *vacuo* and purified by chromatography (EtOAc/Hex 1:4) to yield hydroxy ester **XXIIIh**. Step 8.

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A solution of methyl ester **XXIIIh** (3g, 10.5 mmol) in THF/H<sub>2</sub>O (1:1) was treated with LiOH•H<sub>2</sub>O (645 mg, 15.75 mmol) and stirred at rt. for 2 h. The reaction mixture was acidfied with aq HCl (1 M, 15 mL) and concentrated in *vacuo*. The residue was dried in vacuum.

A solution of the acid in CH<sub>2</sub>Cl<sub>2</sub> (50 mL) and DMF (25 mL) was treated with NH<sub>4</sub>Cl (2.94 g, 55.5 mmol), EDCl (3.15 g, 16.5 mmol), HOOBt (2.69 g, 16.5 mmol), and NMM (4.4 g, 44 mmol). The reaction mixture was stirred at room temperature for 3 d. The solvents were removed under *vacuo* and the residue was diluted with aq. HCl (250 mL) and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layers were washed with aq. Sat'd. NaHCO<sub>3</sub>, dried (MgSO<sub>4</sub>) filtered concentrated

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in vacuo to obtain **XXIIIi**, which was used as it is in the following steps. (Alternatively **XXIIIi** can also be obtained directly by the reaction of **XXIIIf** (4.5 g, 17.7 mmol) with aq.  $H_2O_2$  (10 mL), LiOH $\bullet$ H $_2O$  (820 mg, 20.8 mmol) at 0 °C in 50 mL of CH $_3$ OH for 0.5 h.)

5 Step 9.

A solution of **XXIIIi** obtained in the previous step was dissolved in 4 N HCI in dioxane and stirred at rt. for 2 h. The reaction mixture was concentrated in *vacuo* to give **XXIIIj** as a solid, which was used without further purification.

Step 10.

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The amino ester **XXIIII** was prepared following the method of R. Zhang and J. S. Madalengoitia (*J. Org. Chem.* **1999**, *64*, 330), with the exeception that the Boc group was cleved by the reaction of the Boc-protected amino acid with methanolic HCI.

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A solution of commercial amino acid Boc-Chg-OH, XXIIIk (Senn chemicals, 6.64 g, 24.1 mmol) and amine hydrochloride XXIIII (4.5 g, 22 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (100 mL) at 0 °C was treated with BOP reagent and stirred at rt. for 15 h. The reaction mixture was concentrated *in vacuo*, then it was diluted with aq. 1 M HCl and extracted into EtOAc (3x200 mL). The combined organic layers were washed with sat'd. NaHCO<sub>3</sub> (200 mL), dried (MgSO<sub>4</sub>), filtered and concentrated *in vacuo*, and chromatographed (SiO<sub>2</sub>, EtOAc/Hex 3:7) to obtain XXIIIm (6.0 g) as a colorless solid.

Step 11.

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A solution of methyl ester **XXIIIm** (4.0 g, 9.79 mmol) in THF/H<sub>2</sub>O (1:1) was treated with LiOH•H<sub>2</sub>O (401 mg, 9.79 mmol) and stirred at rt. for 3 h. The reaction mixture was acidified with aq. HCl and concentrated in *vacuo* to obtain the free acid.

A solution of acid (1.5 g, 3.74 mmol) in DMF/CH<sub>2</sub>Cl<sub>2</sub> (1:1 50mL) was treated with amine **XXIIIj** (772 mg, 3.74 mmol), EDCI (1.07 g, 5.61 mmol), HOOBt (959 mg, 5.61 mmol) and NMM (2.15 mL, 14.96 mmol) at -10 °C. The reaction mixture was stirred at 0 °C for 48 h and concentrated in vacuo. The residue was diluted with aq. 1M HCl and extracted with  $CH_2Cl_2$ , The combined organic layers were extracted with aq. NaHCO<sub>3</sub>, aq. HCl, brine, dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo to obtain **XXIIIn** (2.08 g) as a tan colored solid.

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#### Step12.

A solution of amide **XXIIIn** (2.08 g, 3.79 mmol) in toluene and DMSO (1:1 20 mL) at 0 °C was treated with EDCI (7.24 g, 37.9 mmol) and dichloroacetic acid (2.42 g, 19.9 mmol) and stirred at rt. for 4 h. The reaction mixture was diluted with CH<sub>2</sub>Cl<sub>2</sub>, washed with sat'd. NaHCO<sub>3</sub>, and brine. The organic layer were dried (MgSO<sub>4</sub>) filtered, concentrated, in vacuo and purified by chromatography (SiO<sub>2</sub>, Acetone/Hexanes 3:7) to yield **XXIII** as a colorless solid.

**Example XXIV** Preparation of a Compound of Formula XXIV:

**XXIV** 

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#### <u>Step 1.</u>

A solution of Boc-tert-Lue **XXIVa** (Fluka, 5.0 g 21.6 mmol) in dry CH<sub>2</sub>Cl<sub>2</sub>/DMF (50 mL, 1:1) was cooled to 0 °C and treated with the amine **XXIIII** (5.3 g, 25.7 mmol), NMM (6.5 g, 64.8 mmol) and BOP reagent (11.6 g, 25.7 mmol). The reaction was stirred at rt. for 24h, diluted with aq. HCl (1 M) and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layers were washed with HCL (aq, 1 M), sat'd. NaHCO<sub>3</sub>, brine, dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo and purified by chromatography (SiO2, Acetone/Hexane 1:5) to yield **XXIVb** as a colorless solid.

#### Step 2.

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\$$

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A solution of methyl ester **XXIVb** (4.0 g, 10.46 mmol) was dissolved in HCl (4 M soln. dioxane) and stirred at rt. for 3 h. The reaction mixture was concentrated in *vacuo* to obtain the amine hydrochloride salt used in the next step.

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A solution of the amine hydrochloride salt (397 mg, 1.24 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (10 mL) was cooled to –78 °C and treated with *tert*-butyl isocyanate (250 mg, 2.5 mmol) and stirred at rt. overnight. The reaction mixture was concentrated in vacuo and the residue was diluted with aq. HCl (1M) and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layers were washed with aq. HCl (1M), sat'd. NaHCO<sub>3</sub> and brine. The organic layers were dried, filtered and concentrated in vacuo and the residue was purified by chromatography (SiO<sub>2</sub>, acetone/Hex 1:4) to yield **XXIVc** as a colorless solid.

<u>Step 3</u>.

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$$\begin{array}{c} CH_3 \\ CH$$

A solution of methyl ester **XXIVc** (381 mg, 1.0 mmol) in THF/H<sub>2</sub>O (1:1, 5 mL) was treated with LiOH•H<sub>2</sub>O (62 mg, 1.5 mmol) and stirred at rt. for 3 h. The reaction mixture was acidified with aq. HCl and concentrated in *vacuo* to obtain the free acid.

A solution of acid (254.9 mg, 0.69 mmol) in DMF/CH $_2$ Cl $_2$  (1:1, 5.0 mL) was treated with amine **XXIIIj** (159 mg, 0.763 mmol), EDCI (199 mg, 1.04 mmol), HOOBt (169.5 mg , 1.04 mmol) and NMM (280 mg, 2.77 mmol) at -20 °C. The reaction mixture was stirred at -20 °C for 48 h and concentrated in *vacuo*. The residue was diluted with aq. 1M HCl and extracted with EtOAc, The combined organic layers were extracted with aq. NaHCO $_3$ , aq. HCl, brine, dried (MgSO $_4$ ) filtered concentrated in *vacuo* to obtain **XXIVd** (470 mg) as a tan colored solid.

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#### Step 4.

$$\begin{array}{c} \text{CH}_3 \\ \text{XXIV} \\ \end{array}$$

A solution of amide **XXIVd** (470 mg, 0.9 mmol) in toluene and DMSO (1:1 20 mL) at 0 °C was treated with EDCI (1.72 g, 9.0 mmol) and dichloroacetic acid (0.37 mL, 4.5 mmol) and stirred at 0 °C for 4h. The reaction mixture was diluted with CH<sub>2</sub>Cl<sub>2</sub>, and washed with satd. NaHCO<sub>3</sub>, and brine. The organic layer was dried (MgSO<sub>4</sub>), filtered, concentrated, in *vacuo* and purified by chromatography (SiO<sub>2</sub>, Acetone/Hexanes 3:7) to yield **XXIV** as a colorless solid.

#### **Example XXV** Preparation of a compound of Formula XXV:

XXV

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#### <u>Step 1.</u>

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A solution of Fmoc–glycine (Bachem, 2.0 g, 6.87 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (20 mL) was treated with 2-phenyl-2-propanol (Aldrich, 3.36 g, 24.7 mmol), DCC (1M soln CH<sub>2</sub>Cl<sub>2</sub>, 8.24 mL), DMAP (167 mg, 1.37 mmol) and stirred at rt. for 24 h. The reaction mixture was concentrated in *vacuo* and diluted with Et<sub>2</sub>O (100 mL). The solid seperating out was filtered and the filterate was washed with satd. NaHCO<sub>3</sub>. The organic layer was dried (MgSO<sub>4</sub>), filtered, concentrated in vacuo, and purified by chromatography (SiO<sub>2</sub>, EtOAc/Hex 1:5) to yield ester XXVc (1.1 g) as a colorless viscous liquid. Step 2.

A solution of XXVc in CH<sub>2</sub>Cl<sub>2</sub> (16.0 mL) was treated with piperidine (4.0 mL) and stirred at rt. for 0.5 h. The reaction mixture was concentrated in *vacuo* and purified by chromatography (SiO<sub>2</sub>, Acetone/Hexanes 1:10 to 1:1) to yield the amine XXVd (420 mg) as a colorless liquid.

Step 3.

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\$$

A solution of methyl ester **XXIVc** (381 mg, 1.0 mmol) in THF/H<sub>2</sub>O (1:1, 5 mL) was treated with LiOH•H<sub>2</sub>O (62 mg, 1.5 mmol) and stirred at rt. for 3 h. The reaction mixture was acidified with aq. HCl and concentrated in *vacuo* to obtain the free acid.

A solution of acid (2.0 g, 5.5 mmol) in DMF/CH<sub>2</sub>Cl<sub>2</sub> (1:1, 40.0 mL) at -10 °C was treated with amine XXIIIg (1.51 g, 6.8 mmol), EDCI (1.57 g, 8.25 mmol), HOOBt (1.41 g, 8.25 mmol) and NMM (2.5 g, 24.7 mmol). The reaction mixture was stirred at 0 °C for 48 h and concentrated in vacuo. The residue was diluted with aq. 1M HCl (100 mL) and extracted with CH<sub>2</sub>Cl<sub>2</sub> (3x100 mL). The combined organic layers were extracted with aq. NaHCO<sub>3</sub>, aq. HCl, brine, dried (MgSO<sub>4</sub>) filtered, concentrated in *vacuo* to obtain XXVe (3.17 g) as a tan colored solid used further without any purification.

Step 4.

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$$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\ \text{CH}_3 \quad$$

A solution of methyl ester **XXVe** (2.5 g, 4.66 mmol) in THF/H<sub>2</sub>O/CH<sub>3</sub>OH (1:1:1, 60 mL) was treated with LiOH•H<sub>2</sub>O (200 mg, 4.87 mmol) and stirred at rt. for 4 h. The reaction mixture was acidified with aq. HCl and concentrated in *vacuo* to obtain the free acid.

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A solution of acid (200.0 mg, 0.38 mmol) in DMF/CH<sub>2</sub>Cl<sub>2</sub> (1:1, 6.0 mL) at -10 °C was treated with amine XXVd (78 mg, 0.4 mmol), EDCI (105 mg, 0.55 mmol), HOOBt (95 mg, 0.55 mmol) and NMM (150 mg, 1.48 mmol). The reaction mixture was stirred at 0 °C for 48 h and concentrated in vacuo. The residue was diluted with aq. 1M HCl (30 mL) and extracted with CH<sub>2</sub>Cl<sub>2</sub> (3x30 mL). The combined organic layers were extracted with aq. NaHCO<sub>3</sub> (2x30 mL), aq. HCl, brine (30 mL), dried (MgSO<sub>4</sub>) filtered, concentrated in *vacuo* to obtain XXVf (240 mg) as a tan colored solid. Step 5.

$$\begin{array}{c} \text{CH}_3 & \text{CH}_3 \\ \text{H} & \text{H} & \text{OH} \\ \text{H} & \text{H} & \text{OH} \\ \text{CH}_3 & \text{CH}_3 \\ \text{XXV} \end{array}$$

A solution of XXVf (240 mg, 0.28 mmol) in  $CH_2Cl_2$  (10 mL) was treated with Dess-Martin reagent (Omega, 242 mg, 0.56 mmol) and stirred at rt. for 2 h. After the oxidation was complete (TLC, Acetone/Hex 1:4) the reaction mixture was diluted with satd. NaHCO<sub>3</sub> (20 mL) and Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (10% aq soln, 20 mL). The

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reaction mixture was stirred for 30 min and extractred with CH<sub>2</sub>Cl<sub>2</sub> (3x30 mL). The combined organic layers were extracted with satd. NaHCO3, brine, dried (MgSO<sub>4</sub>) filtered concentrated in *vacuo* and purified by chromatography (SiO<sub>2</sub>, acetone/Hexanes 1:5) to yield XXV (122 mg) as a colorless solid.

#### 5 Example XXVI Preparation of a compound of Formula XXVI:

XXVI

Step 1:

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To a stirred solution of *N*-Boc-3,4-dehydroproline **XXVIa** (5.0 g, 23.5 mmol), di-*tert*-butyl dicarbonate (7.5 g, 34.4 mmol), and 4-*N*,*N*-dimethylaminopyridine (0.40 g, 3.33 mmol) in acetonitrile (100 mL) at room temperature was added triethylamine (5.0 mL, 35.6 mmol). The resulting solution was stirred at this temperature for 18 h before it was concentrated *in vacuo*. The dark brown residue was purified by flash column chromatography eluting with 10-25% EtOAc/hexane to give the product **XXVIb** as a pale yellow oil (5.29 g, 84%). Step 2:

238

To a stirred solution of dehydroproline **XXVIb** (10.1 g, 37.4 mmol), benzyltriethylammonium chloride (1.60 g, 7.02 mmol) in chloroform (120 mL) at room temperature was added 50% aqueous sodium hydroxide (120 g). After vigorously stirred at this temperature for 24 h, the black mixture was diluted with CH<sub>2</sub>Cl<sub>2</sub> (200 mL) and diethyl ether (600 mL). After the layers were separated, the aqueous solution was extracted with CH<sub>2</sub>Cl<sub>2</sub>/Et<sub>2</sub>O (1:2, 3x600 mL). The organic solution was dried (MgSO<sub>4</sub>) and concentrated. The residue was purified by flash column chromatography using 5-20% EtOAc/hexane to afford 9.34 g (71%) of **XXVIc** as an off-white solid.

#### Step 3:

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The solution of **XXVIc** (9.34 g, 26.5 mmol) in  $CH_2CI_2$  (25 mL) and  $CF_3CO_2H$  (50 mL) was stirred at room temperature for 4.5 h before it was concentrated *in vacuo* to give a brown residue which was used in <u>Step 4</u> without further purification.

#### Step 4

$$\begin{array}{c|c} \text{CI} & \text{CI} & \text{CI} \\ & & \text{CI} \\ & & \text{CO}_2\text{H} \end{array} \\ \begin{array}{c} \text{CI} & \text{CI} \\ & & \text{HCI} \\ & & \text{CO}_2\text{Me} \end{array} \\ \begin{array}{c} \text{XXIIIe} \\ \end{array}$$

Commercial concentrated hydrochloric acid (4.5 mL) was added to a solution of the residue from <u>Step 3</u> in methanol (70 mL) and the resulting mixture was warmed to 65°C in an oil bath. After 18 h, the mixture was concentrated *in vacuo* to give a brown oil **XXVIe**, which was used in <u>Step 5</u> without further purification.

#### Step 5:

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To a stirred solution of proline methyl ester XXVIe from Step 4, commercial N-Boc-cyclohexylglycine XXVIf (10.2 g, 40.0 mmol) and [O-(7-azabenzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate] (HATU) (16.0 g, 42.1 mmol) in DMF (200 mL) at 0°C was added diisopropylethylamine (18.0 mL, 104 mmol). After allowed to warm to room temperature along with the ice bath over night (18 h), the reaction mixture was diluted with EtOAc (600 mL), 5% H<sub>3</sub>PO<sub>4</sub> (150 mL) and brine (150 mL). The organic solution was washed with 5% H<sub>3</sub>PO<sub>4</sub> (150 mL), saturated NaHCO<sub>3</sub> (2x200 mL) before it was dried (MgSO<sub>4</sub>), filtered and concentrated *in vacuo*. The residue was purified by flash column chromatography using 5-20% EtOAc/hexane to afford 3.84 g (32%, three steps) of XXVIg as an off-white solid.

#### Step 6:

240

The solution of methyl ester **XXVIg** (5.87g, 13.1 mmol) and LiOH (1.65 g, 39.3 mmol) in THF/MeOH/H<sub>2</sub>O (1:1:1, 90 mL) was stirred at room temperature for 4 h. Methanol and THF were removed under reduced pressure. The aqueous solution was acidified to PH~2 using 1 N aqueous HCl solution (50 mL) and saturated with solid sodium chloride before it was extracted with EtOAc (3x150 mL). The organic solutions were combined, dried (MgSO<sub>4</sub>), filtered and concentrated *in vacuo* to give a white solid **XXVIh** (5.8 g, quantitative).

### 10 Step 7:

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The desired product **XXIIIi** was prepared according to the procedure in Example XXIII, Step 11.

#### 15 Step 8:

241

The desired product **XXVI** was prepared according to the procedure in Example XXIII, Step 12.

# 5 Example XXVII: Preparation of compound of formula XXVII:

XXVII

Step 1

242

The desired product **XXVIIa** was prepared according to the procedure in Example XXIII, Step 9.

## Step 2

The desired product **XXVIIb** was prepared according to the procedure in Example XXIV, Step 2.

#### Step 3

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WAII

The desired product **XXVII** was prepared according to the procedure in Example XXIII, Step 12.

## 15 Example XXVIII: Preparation of a compound of formula XXVIII:

243

XXVIII

Step 1:

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The intermediate **XXVIIIb** was prepared according to the procedure in Example XXIII, Steps 3-6.

Step 2:

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The acid from Example XXIV, Step 2 (**XXVIIIc**) (0.7g) was reacted with product from Step 1 above (0.436g), HATU (0.934g) and DIPEA (1.64 mL) in the

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manner previously described in Example IX, Step 2a to afford 0.66 g of the desired product XXVIIId.

#### Step 3:

**XXVIIId** 5

The product of Step 2 (0.5g) was reacted with Dess-Martin reagent (1g) in the manner previously described in Example XX, Step 7. Purification by flash column chromatography (40% EtOAc, Hexane, silica) furnished 0.35g of product **XXVIIIe.** Mass spectrum (LCMS) 522 (M+H<sup>+</sup>).

#### Step 4:

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The product of Step 4 (0.3g) was added a 1/1 H<sub>2</sub>O/MeOH solution (20 mL) and NaHCO3 solid (242 mg, 5equiv.). After being stirred for 18 hours at room temperature, the reaction was diluted with EtOAc and layers were separated. The aqueous layer was acidified to pH 2 with HCl 1.0 N and extracted with EtOAc. The EtOAc layer was washed with brine then dried over MgSO<sub>4</sub>, filtered and

concentrated in vacuo to afford product XXVIIIf as a white powder (0.26g). Mass spectrum (LCMS) 508 (M+H<sup>+</sup>).

#### Step 5:

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The product of Step 5 (0.15g) was dissolved in CH<sub>2</sub>Cl<sub>2</sub> and reacted with HATU (0.137g), NH<sub>4</sub>Cl (0.08g, 5equiv.) and DIPEA (0.53 mL). After 2 hours at room temperature, the reaction was diluted with EtOAc, washed with a 10% citric acid solution, then a saturated NaHCO3 solution. The EtOAc layer was washed with brine then dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford a crude mixture. Purification by flash column chromatography (30% Acetone, Hexane, silica) furnished the desired product XXVIII (0.096g). Mass spectrum (LCMS) 507 (M+H<sup>+</sup>).

#### **Example XXIX: Preparation of a compound of formula XXIX:**

XXIX

246

Step1:

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To a 0 °C solution of the starting aldehyde (4.0g) in CH<sub>2</sub>Cl<sub>2</sub> (75 mL) was added acetic acid (2.0 equiv., 2.15 mL) followed by methylisocyanoacetate (1.1 equiv., 1.9 mL). The reaction was then gradually warmed-up to room temperature. After 18 hours (overnight), the reaction was diluted with EtOAc and washed with a saturated NaHCO<sub>3</sub> solution. The EtOAc layer was washed with brine then dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford a crude mixture. Purification by flash column chromatography (30 to 40% EtOAc, Hexane, silica) furnished the product **XXIXa** (4.5g). Step2:

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To a 0 °C solution of **XXIXa** (4.4g) in THF (100 mL) was added 26 mL (2.2 equiv.) of a 1.0 N LiOH solution. The reaction was stirred at this temperature for 2 hours then warmed-up to room temperature. After 2 hours, reaction mixture was acidified to pH 2 with a 1.0 N HCl solution. EtOAc was added and layers were

separated. The EtOAc layer was washed with brine then dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford product **XXIXb** (3.7g).

247

Step3:

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The acid **XXIXb** was reacted with the amine from Example XV in the manner previously described in Example XXI, Step 4. The resulting intermediate was then treated with HCl in the manner previously described in Example XXIII, Step 9 to afford product **XXIXc**.

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Step4:

The acid **XXVIIIc** (2.43g) was dissolved in CH<sub>2</sub>Cl<sub>2</sub> and was reacted with amine **XXIXc** (2.47g), HATU (2.5g) and DIPEA (5.8 mL) in the manner previously described in Example IX, Step 2a to afford, after purification by flash column chromatography (4% MeOH, CH<sub>2</sub>Cl<sub>2</sub>, silica), the desired product **XXIXd** (4.35g). Mass spectrum (LCMS) 727 (M+H<sup>+</sup>). Step 5:

249

The product of Step 4 (4.2g) was reacted with Dess-Martin reagent (6.4g) in the manner previously described in preparative Example XX, Step 7.

Purification by flash column chromatography (100% EtOAc, silica) furnished 3 g of the final product **XXIX**. Mass spectrum (LCMS) 725 (M+H<sup>+</sup>).

## **Example XXX: Preparation of a compound of formula XXX:**

250

#### Step 1:

$$CF_3$$
  $CF_3$   $CF_3$   $CF_3$   $CF_3$   $CF_3$ 

The alcohol 2-(trifluoromethyl)propan-2-ol (1.28g) was reacted with N,N-disucciminidyl carbonate (3.84g) and Et<sub>3</sub>N (4.2 mL) in dry CH<sub>3</sub>CN (50 mL) for 18 hours. The mixture was diluted with EtOAc (200 mL) and filtered. The filtrate was washed with NaHCO<sub>3</sub>, brine then dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford a crude mixture. Purification by flash column chromatography (50% EtOAc, Hexane, silica) furnished the desired product **XXXa** (0.3g).

#### 10 Step 2:

#### **XXXb**

The product from Example XXIX (0.3g) was treated with 100 mL of 4.0 N HCl in dioxane. After 1 h, 200 mL of  $\rm Et_2O$  were added and the resulting precipitate

was filtered off and dried under vacuo to afford the product **XXXb** (0.27g) as a white powder. Mass spectrum (LCMS) 625 (M – HCl +H<sup>+</sup>). Step 3:

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To a room temperature solution of **XXXb** (0.05g) in CH<sub>2</sub>Cl<sub>2</sub> (5 mL) was added DIPEA (0.040 mL) **XXXa** (1.5 equiv., 0.030g), followed by 1 crystal of DMAP. After 30 minutes, reaction was diluted with EtOAc (20 mL) and washed with HCl 1.5 N then NaHCO<sub>3</sub> then brine. EtOAc layer was dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford a crude mixture. Purification by preparative chromatography (40% Acetone, Hexane, silica) furnished the desired product **XXX** (0.044g). Mass spectrum (LCMS) 779 (M+H<sup>+</sup>).

## 15 Example XXXI: Preparation of a compound of formula XXXI:

252

# <u>Step 1:</u>

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To a solution of **XXXb** (0.05g) in CH<sub>2</sub>Cl<sub>2</sub> (5 mL) at room temperature was added DIPEA (0.040 mL) and *tert*-butylisocyanate (1.2 equiv., 0.01 mL). After 18 hours, reaction was diluted with EtOAc (20 mL) and washed with HCl 1.5 N, NaHCO<sub>3</sub> and brine. EtOAc layer was dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to afford a crude mixture. Purification by preparative chromatography

253

(100% EtOAc, silica) furnished the final product **XXXI** (0.021g). Mass spectrum (LCMS) 724 (M+H<sup>+</sup>).

# Example XXXII: Preparation of a compound of formula XXXII:

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# <u>Step 1:</u>

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The product from Example XXVIII was treated in the manner previously described in preparative Example XXX, Step 2 to afford product **XXXIIa**. Mass spectrum (LCMS) 407 (M – HCl +H<sup>+</sup>).

Step 2:

254

The amine **XXXIIa** was reacted with **XXXa** in the manner previously described in preparative Example XXX, Step 3 to afford the desired product **XXXII**. Mass spectrum (LCMS) 508 (M+H<sup>+</sup>).

# Example XXXIII: Preparation of a compound of formula XXXIII:

10 Step 1:

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The amine **XXXIIa** was reacted with *tert*-butylisocyanate in the manner previously described in Example XXXI, Step 1, to afford the product **XXXIII**. Mass spectrum (LCMS) 561 (M+H<sup>+</sup>).

# 5 Example XXXIV: Preparation of a compound of formula XXXIV:

# XXXIV

# Step 1:

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OCH<sub>3</sub> 
$$N$$
, ms  $4A^0$ 

To the mixture of ester (6.0g) and molecular sieve (5.2g) in anhydrous methylene chloride (35 mL) was aded pyrrolidine (5.7 mL, 66.36 mmoL). The resulting brown slurry was stirred at room temperature under  $N_2$  for 24 h, filtered

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and washed with anhydrous CH<sub>3</sub>CN. The combined filtrate was concentrated to yield the desired product.

### Step 2:

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To a solution of the product from proceeding step in CH<sub>3</sub>CN (35 mL) was added anhydrous  $K_2CO_3$ , methallyl chloride (2.77g, 30.5 mmoL), Nal (1.07g, 6.7 mmoL). The resulting slurry was stirred at ambient temperature under  $N_2$  for 24 h. 50 mL of ice-cold water was added followed by 2N KHSO<sub>4</sub> solution until pH was 1. EtOAc (100 mL) was added and the mixture was stirred for 0.75h. Combined organic layer was collected and washed with brine, dried over MgSO<sub>4</sub>, and evaporated to yield the desired product.

### Step 3:

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The product from preceding step (2.7 g, 8.16 mmoL) was dissolved in dioxane (20 mL) and treated with freshly prepared 1N LiOH (9 mL). The reaction mixture was stirred at ambient temperature under  $N_2$  for 20 h. The reaction mixture was taken in EtOAc and washed with  $H_2O$ . The combined aqueous phase was cooled to  $0^{\circ}C$  and acidifed to pH 1.65 using 1N HCl. The turbid mixture was extracted with EtOAc (2 x 100 mL). Combined organic layer was washed with brine, dried over MgSO<sub>4</sub>, concentrated to give the desired acid (3.40 g).

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Step 4:

To a suspension of NaBH(OAc)<sub>3</sub> (3.93g, 18.5 mmoL) in CH<sub>2</sub>Cl<sub>2</sub> (55 mL) was added a solution of product from preceding step in anhydrous CH<sub>2</sub>Cl<sub>2</sub> (20 mL) and acetic acid (2 mL). The slurry was stirred at ambient temperature for 20 h. Ice cold water (100 mL) was added to the slurry and stirred for 1/2 hr. Organic layer was separated, filtered, dried and evaporated to yield the desired product. Step 5:

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To a solution of the product from preceding step (1.9g) in MeOH (40 mL) was treated with excess of  $CH_2N_2$  /  $Et_2O$  solution and stirred for overnight. The reaction mixture was concentrated to dryness to yield a crude residue. The residue was chromatographed on silica gel, eluting with a gradient of EtOAc / hexane to afford 1.07 g of the pure desired product. Step 6:

258

To a solution of product from preceding step (1.36 g) in anhydrous CH<sub>2</sub>Cl<sub>2</sub> (40 mL) was treated with BF<sub>3</sub>. Me<sub>2</sub>O (0.7 mL). The reaction mixture was stirred at ambient temperature for 20 h and quenched with sat. NaHCO<sub>3</sub> (30 mL) ad stirred for 1/2 hr. Organic layer was separated and combined organic layer was washed with brine, dried over MgSO<sub>4</sub>, concentrated to give crude residue. The residue was chromotagraphed on silica gel eluting with a gradient of EtOAc / hexane to afford 0.88 g of the desired compound.

### Step 7:

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To a solution of the product (0.92 g) from preceding step in MeOH (30 mL) was added 10 % Pd/C (0.16 g) at room temperature and hydrogenated at ambient temperature under 1 atm. Pressure. The reaction mixture was stirred for 4 h and concentrated to dryness to yeild the desired compound.

Step 8:

259

The desired product was prepared according to the procedure in Example XXIII, Step 10.

# 5 Step 9:

The desired acid product was prepared according to the procedure in Example XXIV, Step 3.

# 10 Step 10:

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The desired product **XXXIV** was prepared according to the procedure in Example XXIX, Steps 4-5.

# **Example XXXV: Preparation of a compound of formula XXXV:**

Step 1:

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A solution of triethyl phosphonate (44.8 g) in THF (30 mL) at 0°C was treated with a 1M solution (200 mL) of sodium bis(trimethylsilylamide) in THF.

The resulting mixture was stirred at RT for 0.5 hour, and then cooled to 0°C. A solution of 1,4-cyclohexanedione ethylene ketal (15.6 g) in THF (50 mL) was

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added dropwise, and the resulting solution was stirred at RT for 18 hours. The reaction mixture was then cooled to 0°C, treated with cold aqueous citric acid, and the mixture was extracted with EtOAc. The extract was washed with saturated aqueous NaHCO3, then brine; then dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel, eluting with a gradient of CH<sub>2</sub>Cl<sub>2</sub>/EtOAc to afford the title compound (21 g), 92% yield. Mass spectrum (FAB) 227.3 (M+H<sup>+</sup>). Step 2:

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The product of the preceding step (20 g) was dissolved in EtOH (150 mL) and treated with 10% Pd/C under 1 atm of hydrogen for 3 days. The mixture was filtered and the filtrate evaporated to afford the title compound (20.3 g), 100 % yield. Mass spectrum (FAB) 229.2 (M+H<sup>+</sup>).

Step 3:

The product of the preceding step (20 g) was dissolved in MeOH (150 mL) and treated with a solution of LiOH (3.6 g) in water (50 mL). The mixture was stirred for 18 hours, and concentrated under vacuum. The residue was dissolved in cold water (100 mL), the solution was acidified to pH 2-3 with 5N HCl, and the resulting mixture was extracted with EtOAc. The extract was dried over

anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated to afford the title compound (17.1 g), 97% yield. Mass spectrum (FAB) 201.2 (M+H<sup>+</sup>). Step 4:

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1. The product of the preceding step (3.0 g) was dissolved in Et<sub>2</sub>O (150 mL), treated with Et<sub>3</sub>N (2.1 mL), and the solution cooled to -78°C. Pivaloyl chloride (1.85 mL) was added dropwise, and after 0.25 hour additional stirring, the reaction was allowed to warm to 0°C over 0.75 hour, and then cooled again to -78°C to afford a solution of mixed anhydride for reaction in part 2.

2. A solution of (S)-4-benzyl-2-oxazolidinone (2.66 g) in THF (22 mL) was cooled to -78°C, and a 1.6 M solution (9.38 mL) of n-butyllithium in hexane was added dropwise. After an additional 0.33 hour stirring at this temperature, the solution was transferred via canula to the cold solution of part 1. The mixture was stirred at -78°C, then warmed to 0°C, and stirred at this temperature for 0.5 hour. The organic layer was separated, the aqueous layer was extracted with Et2O, the combined organics were washed with brine, dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel, eluting with a gradient of hexane/EtOAc (9:1) to afford the title compound (5.0 g), 93% yield. Mass spectrum (FAB) 360.4 (M+H<sup>+</sup>). Step 5:

The product of the preceding step (2.7 g) was dissolved in THF (25 mL), cooled to -78°C, transferred by canula to a solution of 0.5 M potassium bis(trimethylsilyl)amide/toluene (16.5 mL) in THF (25 mL) at -78°C, and the resulting solution was stirred at -78°C for 0.75 hour. To this solution was added via canula a solution of trisyl azide (3.01 g) in THF (25 mL) pre-cooled to -78°C. After 1.5 minutes, the reaction was quenched with acetic acid (1.99 mL), the reaction was warmed to RT, and then stirred for 16 hours. The reaction was diluted with EtOAc (300 mL), and washed with 5% aqueous NaCl. The aqueous phase was extracted with EtOAc, the combined organic phases were washed with saturated aqueous NaHCO3, then brine; then dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel, eluting with EtOAc/hexane (1:3) to afford the title compound (2.65 g), 88% yield.

### 15 Step 6:

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The product of the preceding step (11.4 g) was dissolved in 95% formic acid (70 mL) and heated at 70°C for 0.5 hour while stirring. The solution was evaporated under vacuum, and the residue was taken up in EtOAc. The solution was washed with saturated aqueous NaHCO3, then brine; then dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel to afford the title compound (8.2 g).

#### 25 Step 7:

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The product of the preceding step (8.2 g) was dissolved in CH<sub>2</sub>Cl<sub>2</sub> (16 mL) and treated with diethylaminosulfur trifluoride (DAST, 7.00 mL) at RT for 3 hours. The reaction was poured over ice/water (200 cc), and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The extract was washed with saturated aqueous NaHCO<sub>3</sub>, then brine; then dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel, eluting with EtOAc/hexane (15:85) to afford the title compound (4.5 g), 52% yield.

#### 10 Step 8:

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The product of the preceding step (3.7 g) was dissolved in a mixture of THF (150 mL) and water (48 mL), cooled to 0°C, treated with 30% H<sub>2</sub>O<sub>2</sub> (3.95 mL), and then with LiOH·H<sub>2</sub>O (0.86 g). The mixture was stirred for 1 hour at 0°C, then quenched with a solution of Na<sub>2</sub>SO<sub>3</sub> (5.6 g) in water (30 mL), followed by a solution of 0.5 N NaHCO<sub>3</sub> (100 mL). The mixture was concentrated under vacuum to 1/2 volume, diluted with water (to 500 mL), and extracted with CH<sub>2</sub>Cl<sub>2</sub> (4 x 200 mL). The aqueous phase was acidified to pH 1-2 with 5N HCl, and extracted with EtOAc (4 x 200 mL). The extract was washed brine; then dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated to afford the title compound (1.95 g), 91% yield, which was used directly in the next step.

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### Step 9:

The product of the preceding example (2.6 g) was dissolved in Et<sub>2</sub>O (50 mL) and treated dropwise with a solution of CH2N<sub>2</sub> in Et<sub>2</sub>O until the solution remained yellow. The solution was stirred for 18 hours, then evaporated under vacuum to afford the title compound (2.8), which was used directly in the next step.

### Step 10:

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The product of the preceding step (1.95 g) was dissolved in MeOH (150 mL), treated with formic acid (1.7 mL), then treated with 10% Pd/C (3.3 g, Degussa type E101) under 1 atm of hydrogen for 1.5 hours. The mixture was filtered and the filtrate evaporated to afford the title compound (2.1 g) as the formic acid salt, which was used directly in the next step. Step 11:

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The product of the preceding step (2.1 g) was dissolved in 1,4-dioxane (100 mL) and di-tert-butyl dicarbonate (1.9 g) was added, followed by diisopropylethylamine (2.9 mL). The solution was stirred for 18 hours, and concentrated under vacuum. The residue was treated with aqueous 5% KH2PO4 and the mixture extracted with EtOAc. The extract was washed with brine; then dried over anhydrous MgSO4, filtered, and the filtrate evaporated. The residue was chromatographed on silica gel, eluting with a gradient of CH2Cl2/Et2O to afford the title compound (2.5 g), 99% yield. Mass spectrum (FAB) 307.9 (M+H<sup>+</sup>). Step 12:

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The product of the preceding step (2.5 g) was dissolved in 1,4-dioxane (35 mL), treated with aqueous 1M LiOH (17 mL), and stirred for 2 hours. The mixture was quenched with ice/water (125 cc), the mixture was acidified to pH 3-4 with 3N HCI, and extracted with EtOAc. The extract was dried over anhydrous MgSO4, filtered, and the filtrate evaporated to afford the title compound (2.3 g), 96% yield. Mass spectrum (FAB) 294.0 (M+H<sup>+</sup>).

Step 13:

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The desired product was prepared according to the procedure in Example XXIII, Step 10.

# Step 14:

The desired acid product was prepared according to the procedure in Example XXIV, Step 3.

# Step 15:

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The desired acid product was prepared according to the procedure in Example XXIX, Step 4.

# **Example XXXVI.** Preparation of compounds of Formulas XXXVI and XXXVIII:

Compounds of formulas XXXVI and XXXVIII were prepared according to the scheme below and utilizing preparative Examples 11 through 15 discussed above.

**XXXVII** 

The compound of formula XXXVIb was prepared from a compound of formula XXXVIa as follows by known procedures:

XXXVIa

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To a solution of Compound XXXVIa ( 6.58g, 22 mmol) in 100 mL of MeOH was added 10% Pd/C (0.8 g) and *p*-toluene sulfonic acid (4.2 g). The reaction mixture was subjected to hydrogenation at room temperature overnight. The reaction mixture was filtered through celite and washed with excess MeOH. The combined filtrate was concentrated in-vacuo to provide the title compound XXXVIb as a gummy. Conversion of XXXVIb to XXXVI and XXXVII followed the route as shown in the scheme above and according to preparative examples 11-15.

## Example XXXVIII. Preparation of a compound of formula XXXVIII:

A compound of the formula XXXVIII was prepared utilizing the following scheme and following preparative Examples 11 through 15 discussed earlier.

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## **Example XXXIX. Synthesis of the compound of Formula XXXIX:**

#### 5 Step 1:

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A solution of the sulfonyl chloride XXXIXa prepared by the procedure of H. Mcklwain (*J. Chem. Soc* 1941, 75) was added dropwise to a mixture of 1.1. equiv of t-butylmethylamine and triethylamine at –78 °C and stirred at rt for 2h. The reaction mixture was concentrated in vacuo and purified by chromatography (SiO<sub>2</sub>, Hex/Acetone 4:1) to yield sulfonamide XXXIXb as a colorless oil. Step 2:

CbzHN 
$$\bigcirc$$
  $S \stackrel{\downarrow}{\bigcirc} N$   $\bigcirc$   $H_2N \stackrel{\downarrow}{\bigcirc} S \stackrel{\downarrow}{\bigcirc} N$  XXXIXc

A solution of the Cbz-protected amine XXXIXb was dissolved in methanol and treated with 5 mol% of Pd /C (5%w/w) and hydrogenated at 60 psi. The reaction mixture was filtered through a plug of celite and concentrated in vacuo to obtain the free amine XXXIXc which solidfied on standing.

Step 3:

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$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\$$

The hydroxy sulfonamide XXXIXd was synthesized similar to the procedure for the synthesis of XXVf except replacing the amine XXVd with XXXIXc. The crude reaction mixture directly used for the next reaction.

Step 4:

$$\begin{array}{c} \text{CH}_3 \\ \text{CH}_3 \\$$

The hydroxy amide XXXIXd was oxidized to compound XXXIX using the

Dess Martin reagent following the procedure for the synthesis of XXV (step 5).

The crude mixture was purified by chromatography (SiO<sub>2</sub>, Acetone/Hexane 3:7) to obtain XXXIX as a colorless solid.

## **Example XXXX Preparation of Compound of Formula XXXX**

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Step1

5 **XXXXa** was reacted in the manner previously described XXXII step 1 to afford **XXXXb** product product of step 1 Mass spectrum (LCMS) 421 (M – HCl +H<sup>+</sup>).

# Step2

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 $Et_3N(1.4 \ mL)$  and Diphenylphosphorylazide(2.2 mL) were added to a solution of carboxylic acid **XXXXc** in toluene (13 mL). Reaction was stirred at RT for 30 min then refluxed overnight. After 18 h, reaction is cooled to RT and **XXXXd** product of step2, which was used directly 0as a 0.7 M solution in Toluene.

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# Step 3

NCO 
$$CH_2CI_2$$
, DIPEA  $NH_2$ 

XXXXX

**XXXXb,** Product of step 1 of preparative example **XXXX** was reacted with **XXXXd** product of step 2 of preparative example **XXXX** in the manner previously described in example XXXIII to afford **XXXX**. Mass spectrum (LCMS) 560 (M+H<sup>+</sup>).

# **Example XXXXI Preparation of Compound of Formula XXXXI**

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## Step4

**XXXXb,** product of step 1 of preparative example **XXXX** was reacted with chloroformate **XXXXIa** prepared as *J.Org.Chem.*,1977,42,143 in the manner previously preparative example 12 compound 4.1 described to afford **XXXXI**. Mass spectrum (LCMS) 561 (M+H<sup>+</sup>).

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# **Example XXXXII Preparation of Compound of Formula XXXXII**

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XXXXIIa

To a stirred and cooled (acetone/dry ice bath) solution of the starting imine XXXXII a (3.679 g) in diethyl ether (50 ml) was added 1.6M methyl lithium in diethyl ether (12.6 ml). The reaction mixture was allowed to warm up to room temperature over 2 hrs. Saturated NaHCO<sub>3</sub> was added and after stirring for ~30 min the organic phase was separated. It was then washed with brine, dried over anhydrous Na<sub>2</sub>SO<sub>4</sub> and concentrated to dryness under vacuum. The crude product was subjected to chromatography over silica gel (2% ethyl acetate in nhexane) to provide the desired product XXXXIIb (0.3 g).

Step 2

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To a stirred and cooled (ice bath) solution of XXXXIIb the product from step 1 (0.3 g) was added 1.0N NaOH (1.38 ml) followed by (Boc)<sub>2</sub>O. The reaction mixture was stirred at room temperature for ~20 hrs after which it was distributed between ethyl acetate (50 ml) and water (10 ml). The ethyl acetate phase was separated, washed with brine and dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>. Evaporation under vacuum to dryness provided the desired NBoc derivative XXXXIIc (0.660 a), which was used without further purification in the following step.

Step 3

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A solution of the **XXXXIIc** product from step 2 in methanol (10 ml) was hydrogenated in the presence of Pd(OH)<sub>2</sub> until thin layer chromatography showed the absence of the starting material. Pd(OH)<sub>2</sub> was removed by filtration and washed with methanol. The combined filtrate and washings were concentrated to dryness under vacuum to provide a solid which was dissolved in methanol and treated with 1.0N HCl in diethyl ether. After ~2 hr the reaction mixture was evaporated to dryness under vacuum to provide **XXXXIId** the desired amine hydrochloride as a white solid (0.2 g).

#### Step 4

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To a stirred and cooled (ice bath) solution of **XXXXIId** the product from step C (0.1 g) in CH<sub>2</sub>Cl<sub>2</sub> (6 ml) was added saturated NaHCO<sub>3</sub> solution (4 ml) followed by phosgene (0.64 ml). The reaction mixture was stirred at 0°C for 30 min and at room temperature for 1 hr. The organic phase was separated, dried over anhydrous MgSO<sub>4</sub> and concentrated to dryness in vacuum to provide the desired isocyanate **XXXXIIe** (0.0611 g).

Step 5

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XXXXb 
$$CH_2CI_2$$
, DIPEA  $NH_2$ 

**XXXXIIe**, product of step 5 was reacted with **XXXXb** of preparative example **XXXX** in the manner previously **in example XXXIII** described to afford **XXXXII**. Mass spectrum (LCMS) 574 (M+H<sup>+</sup>).

# **Example XXXXIII Preparation of Compound of Formula XXXXIII**

10 **Step 1** 

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To a cooled solution (ice bath) of 4-hydroxy-2-butanone (8.81 g) **XXXXIIIa** in  $CH_2Cl_2$  (100 ml) was added with stirring, benzoyl chloride (14.76 g) followed by pyridine (16.15 ml) and DMAP (0.01 g). The reaction mixture was stirred at room temperature overnight then diluted with ethyl acetate (~200 ml). The solution was

washed with aqueous CuSO<sub>4</sub>, aqueous NH<sub>4</sub>Cl and brine. The organic phase was then dried over anhydrous MgSO<sub>4</sub> and evaporated to dryness. The product was purified by column chromatography over silica gel (5%-15% ethyl acetate in n-hexane) to provide **XXXXIIIb** (16.3 g; 84.9%).

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To a solution of **XXXXIIIb**, the product from step 1 (16.3 g) in CH<sub>2</sub>Cl<sub>2</sub> (150 ml), was added DAST (26.1 ml) and the reaction mixture stirred at room temperature for ~72 hrs. The mixture was then added dropwise to a cold saturated solution of Na<sub>2</sub>CO<sub>3</sub> (150 ml). The mixture was diluted with ethyl acetate (~200 ml) and after stirring for ~30 min the organic phase was separated; washed with brine and dried over anhydrous MgSO<sub>4</sub>. Concentration in-vacuo and purification by chromatography over silica gel (4% ethyl acetate in n-hexane) provided **XXXXIIIc** (14.6 g; 80.4%).

#### Step3

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To a solution of **XXXXIIIc** the product from step 2 (4 g) in dry diethyl ether (150 ml) was added with cooling (ice bath) EtMgCl (28 ml). The reaction mixture was stirred in the cooling bath for ~6 hrs after which it was poured into saturated aqueous NH<sub>4</sub>Cl with ice cooling. The organic layer was separated, washed with

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brine, dried over anhydrous MgSO<sub>4</sub> and concentrated to dryness in vacuum. The residue was dissolved in  $CH_2CI_2$  (100 ml) and treated with Dess-Martin reagent (15.8 g). After stirring at room temperature for 1 hr  $Ph_3P=CHCOO^tBu$  (10.54 g) was added. Stirring was continued for ~20 hrs. Ethyl acetate (~200 ml) was added followed by a mixture of saturated  $Na_2S_2O_3$  and saturated  $NaHCO_3$  (200 ml; 1/1) and stirred for ~ 10 min. The organic layer was separated and washed successively with saturated  $NaHCO_3$  and brine. The washed organic phase was dried over anhydrous  $MgSO_4$  and evaporated to dryness under vacuum to provide the desired crude product.

The above reaction was repeated using the product from step 2 (10.6 g). The final crude products from the two reactions were combined and subjected to purification by chromatography on silica gel (10% CH<sub>2</sub>Cl<sub>2</sub> in n-hexane) to provide **XXXXIIId** (7.93 g; 57%).

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Benzyl carbamate (8.92 g) was dissolved in n-propyl alcohol (79 ml). To the resulting solution was added with stirring a freshly prepared solution of NaOH (2.33 g) in water (145 ml), followed by tert-butylhypochlorite (6.57 ml). To the resulting mixture (DHQ)<sub>2</sub>PHAL (0.742 g) dissolved in n-propyl alcohol (66 ml) was added followed by **XXXXIIId** (19.05 mmol). The osmium catalyst,  $K_2OsO_2(OH)_2$  was then added and the reaction mixture stirred at room temperature for 1 hr.

The above reaction was repeated using **XXXXIIId** (19. 36 mmol). The two reactions were combined followed by dilution with ethyl acetate (500 ml). The mixture was shaken with water (100 ml), the organic phase separated and

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washed with water, brine and finally dried over anhydrous MgSO<sub>4</sub>. Evaporation under vacuum provided the crude product which was chromatographed over silica gel (10%-20% ethyl acetate in n-hexane) to provide pure desired product (3 g) as a mixture of **XXXXIIIe** and **XXXXIIII** 

Step 5

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A stirred solution of **XXXXIIIf** and **XXXXIIIe** the product from step 4 in  $CH_2Cl_2$  (50 ml) was treated with trifluoroacetic acid (50 ml). After 4 hrs the reaction mixture was concentrated to dryness under vacuum. The residue was dissolved in 10% aqueous  $Na_2CO_3$  the solution washed with diethyl ether and the aqueous phase acidified with 2M  $H_2SO_4$  to pH ~1.5. Extraction of the acidic solution with ethyl acetate followed by drying over anhydrous MgSO4 and evaporation under vacuum provided the desired product as a mixture of **XXXXIIII** and **XXXXIIII** (2.6 g).

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Step 6

To a solution of the product from step 5 (1 g) in CH<sub>2</sub>Cl<sub>2</sub> (50 ml) was added HATU (1.43 g), NH<sub>4</sub>Cl (0.842 g) and DMSO (5.59 ml). The reaction mixture was stirred at room temperature for ~20 hrs, diluted with ethyl acetate and washed with saturated NaHCO<sub>3</sub> and brine. The organic phase was then dried over anhydrous MgSO<sub>4</sub> and concentrated to dryness under vacuum to provide the crude product. Chromatography on silica gel (10% n-hexane in ethyl acetate) provided in one of the fractions the pure desired product **XXXXIIIi** (0.205 g).

To a solution of **XXXXIIIi** the product from step 6 (0.205 g) in ethanol (15 ml) was added 10% Pd/C catalyst. The resulting suspension was hydrogenated until thin layer chromatography indicated complete consumption of the starting material (~3 hrs). The catalyst was removed by filtration and washed with ethanol. The combined filtrate and washings were evaporated under vacuum to dryness to provide the desired product **XXXXIIIj** (0.164 g).

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XXXXIIIj was converted to XXXIII following the procedure similar to exmple XXVIII and XXXIII

# 5 Example XXXXIV Preparation of Compound of Formula XXXXIV

Step 1

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Ethyl malonate **XXXXIVa** (5.4ml; 36mmol) was added to a suspension of NaH (1.44g of a 60% dispersion in mineral oil; 0.9eq.) in anhydrous tetrahydrofuran (THF; 60ml) at 0C, under an atmosphere of nitrogen and the mixture was stirred at room temperature for 30 min. Benzyl 2-bromoethylether (8.5ml; 40mmol) was added before refluxing the reaction for a period of 24h. After cooling, the reaction was partitioned between EtOAc and dilute HCl (approx. 1M). The organic layer was separated, dried (MgSO<sub>4</sub>) and concentrated to yield a residue.

The aforementioned residue was dissolved in anhydrous THF (100ml) and a solution of lithium aluminum hydride (LAH; 66ml of a 1.0M solution) was added under an atmosphere of nitrogen and the resulting mixture was stirred at room temp. for a period of 4h. and EtOAc followed by dilute HCl was added. The organic layer was separated, washed with brine, dried (MgSO4) and concentrated. The crude reaction product was purified by silica gel column chromatography using EtOAc:Hexane (70:30) as eluent to provide the desired diol **XXXXIVb** (3.59g) as a colourless oil.

### 10 **Step 2**

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p-Toluene sulfonylchloride (1.12g; 5.9mmol) was added to the diol **XXXXIVb** (1.00g; 4.9mmol) in a mixture of dichloromethane (15ml) and pyridine (1.18ml; 14.6mmol) and the resulting mixture was stirred at room temperature overnight (approx 16h.). The reaction mixture was partitioned between EtOAc and dilute aqueous HCl. The organic phase was separated, washed with sat. aq. Sodium bicarbonate, dried (MgSO4) and concentrated under reduced preesure. The residue was purified by silica gel column chromatography using EtOAc: hexane (30:70) as eluent to provide I) the ditosylate (0.291g), followed by ii) the desired mono-tosylate **XXXXIVc** (1.02g) and iii) recovered diol (0.27g).

#### Step 3

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The mono-tosylate **XXXXIVc** (1.0g; 2.8mmol) in anhydrous dimethylformamide (DMF; 3ml) was added to a suspension of NaH (0.333g of a 60 % dispersion in mineral oil; 8.3mmol) in DMF (13ml) and the resulting mixture was stirred at room temperature for a period of 3h. The reaction mixture was partitioned between EtOAc and water. The organic phase was separated, washed with brine, dried (MgSO4) and concentrated to provide a residue which was purified by silica gel column chromatography using EtOAc: hexane (1:5) as eluent to provide the desired oxetane **XXXXIVd** (0.37g) as a colourless oil.

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### Step 4

A suspension of 10% Pd-C (0.10g) and the benzylether **XXXXIVd** (0.33g) in methanol (10ml) was placed under an atmosphere of hydrogen (balloon) for a period of 1h. The reaction mixture was filtered through a pad of celite and the solid was washed thoroughly with methanol. The combined filtrate was concentrated under reduced pressure to provide the alcohol **XXXXIVe** (0.17g) as a colourless oil used in subsequent procedures without purification.

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### Step 5

The Dess-Martin periodinane (0.658g; 0.16mmol) was added to a solution of the alcohol **XXXXIVe** (0.144g; 1.4mmol) in dichloromethane (5ml) and stirred at room temperature for a period of 1h., before adding the phosphorane (0.637g; 0.16mmol). The resulting reaction mixture was stirred for a period of approx. 16h., then partitioned between EtOAc and water. The organic phase was separated, dried (MgSO<sub>4</sub>) and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using EtOAc:hexane; 1:5 to provide the ester **XXXXIVf** (0.131g) as a colourless oil.

# Step 6

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Benzyl carbamate (0.657g; 4.3mmol) was dissolved in n-propanol (6ml). Aqueous sodium hydroxide (0.171g; 4.3mmol, in 11ml of water) was added followed by tert-butyl hypochlorite (0.49ml; approx 4.3mmol) and a solution of (DHQ)<sub>2</sub>PHAL (0.056g) in n-propanol (5ml). The resulting mixture was placed in a

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water bath and and stirred for 5 min. before adding the olefin **XXXXIVf** (0.326g; 1.4mmol) followed by potassium osmate dihydrate (0.021g). The resulting reaction mixture was sirred for 3h., and added to EtOAc. The aqueous layer was separated and washed with EtOAc. The combined organic phases were wahed with brine, dried (MgSO4) and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using EtOAc; hexane (7:3) as eluent to give the alpha-hydroxy ester **XXXXIVg** (0.367g), containing approx. 20% of the undesired beta-hydroxy ester.

### 10 Step 7

Potassium carbonate (0.100g) was added to a methanol (30ml) solution of approx. 2g of the benzyl ester **XXXXIVg** (contaminated with a small quantity of benzyl carbamate). The resulting mixture was stirred at room temperature for 2h., then partitioned between EtOAc and water. The organic phase was separated, washed with brine, dried and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using EtOAc:hexanes (7:3) to provide the ester **XXXXIVh** (1.02g).

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#### Step 8

A suspension of 10% Pd-C (0.030g) and the benzyl carbamate **XXXXIVh** (0.090g) in methanol (5ml) was placed under an atmosphere of hydrogen (balloon) for a period of 1h. The reaction was filtered through a pad of celite and the solid was washed thoroughly with methanol. The combined filtrate was concentrated under reduced pressure to yield the intermediate amine (0.050g) which was used immediately.

BOP reagent (0.131g; 0.31mmol) followed by triethylamine (0.130ml;0.93mmol) were added to amixture of the amine (0.050g; 0.28mmol) and the carboxylic acid **XXXXIVi** (0.121g; 0.31mmol) in dichloromethane (3ml) and the resulting mixture was stirred for a period of 4h. and partitioned between dil. aq. HCI (approx. 1M) and EtOAc. The organic phase was separated, washed with sat. aq. Sodium bicarbonate, dried (MgSO<sub>4</sub>) and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using EtOAc as eluent to provide the methyl ester **XXXXIVj** (0.107g) as a white solid.

#### Step 9

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Potassium carbonate (0.054g; 0.39mmol) was added to the ester **XXXXIVj** (0.107g; 0.19mmol) in a mixture of methanol (3ml) and water (1ml) and the resulting reaction was stirred for a period of 16h. and partitioned between EtOAc and water. The organic phase was separated, washed with brine, dried and concentrated to yield the acid **XXXXIVk** (0.099g).

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#### Step 10

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Triethylamine (0.035ml; 0.25mmol) was added to a mixture of the carboxylic acid **XXXXIVk** (0.041g; 0.08mmol), the hydrochloride salt (0.023g; 0.08mmol) and BOP reagent (0.037g; 0.08mmol) in dichloromethane (3ml) and the resulting mixture was stirred at room temperature for a period of 4h. The reaction was partitioned between EtOAc and dilute aq. HCl (1M). The organic phase was separated, washed with sat. aq. sodium bicarbonate, water, dried and concentrated under reduced pressure.

The residue from the aforegoing procedure was dissloved in dichloromethane (3ml) and Dess-Martin periodinane (0.065g; 0.15mmol) was added and the mixture stirred at room temperature for 2h. The reaction was partioned between 5% aq. sodium sulfite, sat. aq. sodium bicarbonate, water, dried and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using CH<sub>2</sub>Cl<sub>2</sub>;MeOH; 20:1 as eluent to provide the alpha-keto amide **XXXXIV** (0.021g). FABMS: MH<sup>+</sup>, 767.4.

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# Example XXXXVI Preparation of Compound of Formula XXXXVI

A solution of aldehyde **XXIIIe** (0.626 g, 2.75 mmol), TOSMIC (1.63 g, 8.27 mmol) and  $CH_3COOH$  (0.48 mL, 8.27 mmol) in dry  $CH_2Cl_2$  (15 mL) was stirred at rt. for 36 h. The reaction mixture was concentrated in *vacuo* and purified by chromatography (SiO<sub>2</sub>, EtOAc/Hex 2:3) to yield 0.90 g (68%) of **XXXXVIa** as a colorless solid

MS (ES) m/z, relative intensity 965 [(2M+1)<sup>+</sup>, 30], 483 [(M+1)<sup>+</sup>, 53], 427 (60), 383 (100), 365 (71), 272 (64).

#### Step 2

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A solution of XXXXVIa (0.9 g. 1.86 mmol) in HCl (30 mL, 6 M

A solution of **XXXXVIa** (0.9 g, 1.86 mmol) in HCI (30 mL, 6 M in CH<sub>3</sub>OH, prepared by addition of acetyl chloride to CH<sub>3</sub>OH at 0 °C) was stirred at rt. overnight. The reaction mixture was concentrated in *vacuo* and used as it is in the following step

MS (ES) m/z, relative intensity 681 [(2M+1)<sup>+</sup>, 26], 341 [(M+1)<sup>+</sup>, 100], 180 (40)

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Step 3

The synthesis of **XXXXVIc** was accomplished using **XXIVc** (134 mg, 0.36 mmol), and amine **XXXXVIb** (120 mg, 0.32 mmol) following the procedure reported for example **XXIV** from **step 3** to yield product **XXXXVIc** which was used for further oxidation without purification

MS (ES) m/z, relative intensity 690 [(M+1)<sup>+</sup>, 100], 591 (27), 537 (18), 513 (27), 478 (63), 438 (18), 414 (60), 268 (27)

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Step 4

The synthesis of **XXXXVI** was accomplished by the oxidation of using alcohol **XXXXVIc** (219 mg, 0.32 mmol), EDCI (609 mg, 3.2 mmol), and Cl₂CHCOOH (131 □L, 1.59 mmol) following the procedure reported in example **XXIV**, **step 4** which

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purified by chromatography (SiO<sub>2</sub>, Acetone/Hexanes 3:7) to yield product **XXXXVI** (117 mg, 53% over 2 steps) as a colorless solid.

MS (ES) m/z, relative intensity 688 [(M+1) $^{+}$ , 32], 589 (81), 476 (100)

293

#### Synthesis of Intermediates

# Example XXXXVII Preparation of intermediate of Formula XXXXVII

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#### **IIVXXXX**

Step 1

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To the solution of ketone **XXXXVIIa** (4.93 g, 12.8 mmol) in anhydrous THF (100 mL) at -78°C was added a solution of lithium hexamethyldisilylazide (LiHMDS) (17.0 mL, 17.0 mmol). The resulting solution was stirred at that temperature for 1 h before a solution of acetone (1.51 mL, 20.5 mmol) and BF<sub>3</sub> Et<sub>2</sub>O (2.60 mL, 20.5 mmol) in THF (15 mL) was added. After stirred for another 4 h, 5% H<sub>3</sub>PO<sub>4</sub> (20 mL) was added followed by saturated ammonium chloride solution (200 mL) and diethyl ether (200 mL). The layers were separated and aqueous layer was extracted with diethyl ether (2 X 200 mL). The combined organic solution was dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo. The crude product was purified by flash chromatography with 20-50% EtOAc/hexane to give 1.84 g of **XXXXVIIb** (33%) and 3.26 g starting material **XXXXVIIa** 

#### Step 2

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To the solution of the ketone XXXXVIIb (0.94 g, 2.13 mmol) in anhydrous THF (20 mL) at -78°C was added a solution of LiAlH<sub>4</sub> in THF (2.6 mL, 2.6 mmol) and the reaction mixture was stirred for 40 min before KHSO<sub>4</sub> solution (1.0 M, 16 mL) was added. The mixture was allowed to warm to rt and to it was added EtOAc (100 mL) and water (50 mL). After the layers were separated and aqueous layer was extracted with EtOAc (2 X 50 mL). The combined organic solution was dried 10 (MgSO<sub>4</sub>), filtered and concentrated in vacuo. The crude product was purified by flash chromatography with 30-100% EtOAc/hexane to give 0.49 g of XXXXVIIc (52%) and 0.18 g (19%) **XXXXVIId**.

#### Step 3 15

The solution of XXXXVIIc (103 mg, 0.232 mmol), triphenylphosphine (120 mg, 0.456 mmol) and diethyl azodicarboxylate (0.055 mL, 0.349 mmol) in anhydrous 20 CH<sub>2</sub>Cl<sub>2</sub> (5 mL) was stirred at rt for 18 h. After concentrated in vacuo, the mixture

was purified by flash column chromatography using 10-30% EtOAc/hexane to give 24 mg (24 %) of **XXXXVIIe**.

Step 4

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The solution of **XXXXVIIe** in EtOH was hydrogenated at rt in the 10% Pd-C catalyst to **XXXXVII**.

A number of inhibitors described in **table-6** using the intermediates **XXXXVII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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# Example XXXXVIII Preparation of intermediate of Formula XXXXVIII

XXXXVIII

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To 5g (22 mmol) of N-Boc-dehydroprolinemethylester XXXXVIIIa was added 25 mg of NaF and 2g of Toluene. At 110C, was added via syringe –pump 1.6equiv (35 mmol, 8.75g) of TMSfluorosulfonyldifluoroacetate (TFDA) in 1h. After 2h, reaction is cooled down to RT. To the mixture is added NMO(6.8g, 50 mmol), Acetone (50 mL), H2O (25 mL) and OsO4 (0.015 M in H2O, 1 mol%, 0.44 mmol, 28 mL). Reaction is stirred overnight at RT then diluted with EtOAc and washed with H2O and Brine. Organic layer was dried over MgSO4, filtered and concentrated to dryness. Purification by flash column chromatography (10 EtOAc, Hexane, silica) furnished Product XXXXVIII (0.76g).

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A number of inhibitors described in **table-6** using the intermediate **XXXXVIII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

## 20 Example IL Preparation of intermediate of Formula IL

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**Step 1**.(1R,3S)- 2,2-DIMETHYL-3-(2-OXOPROPYL)CYCLOPROPANEACETIC ACID .

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A mixture of 0.55 L tert-butanol, 1.1 L water, 100 mL 3-carene ILa (Aldrich Chemical Co.), and 490 g NalO<sub>4</sub>, was treated with 2.2 g ruthenium chloride hydrate. The vigorously stirred mixture was alternately heated and cooled for 2 hr. to maintain a temperature of 35-40°C. The vigorously stirred mixture was alternately heated and cooled for another 1 hr. to maintain a temperature of 40-50°C. The vigorously stirred mixture was then heated for another 1/2 hr. to maintain a temperature of 50-55°C. The mixture was then cooled to 30°C, filtered on a Buchner funnel, and the precipitates were washed with 700 mL of iso-propyl ether. The aqueous portion of the filtrate was extracted with 900 mL of EtOAchexane (2:1), and the extract was combined with the ethereal portion of the filtrate. The combined organics were washed with 300 mL of 20% aqueous NaCl, then extracted with a solution of 36 g NaOH in 2.2 L water. The cooled aqueous extract was acidified with 100 mL of 12 N HCl and extracted with Et<sub>2</sub>O (3 x 800 mL). The extract was washed with brine, dried over anhydrous MgSO4, and evaporated in vacuo to leave the title compound ILb 98 g (88%) as a gum.  $H^{1}NMR$  (CDCl<sub>3</sub>)  $\delta$  2.39 (m, 2), 2.28 (m,2), 2.19 (s, 3), 1.1.12 (s, 3), 0.90 (m, 2), 0.63 (s, 3).

**Step 2.** (1R,3S)-METHYL 2,2-DIMETHYL-3-(2-OXOPROPYL)CYCLOPROPANEACETATE.

A solution of 98 g of **ILb**, the product of the preceding step and 0.55 L DMF was treated with 98 g Cs<sub>2</sub>CO<sub>3</sub>. The mixture was stirred for 10 minutes, 41.5 mL Mel was added, and the mixture was stirred at  $40^{\circ}$ C for 1 hr. The mixture was cooled and filtered on a Buchner funnel. The filtrate was quenched with 2.5 L of 18% aqueous NaCl, the organic layer was separated, and the aqueous solution was extracted with Et<sub>2</sub>O-hexane (1:1; 2 x 1 L). The combined organic layer and extracts were washed with water, dried over anhydrous MgSO<sub>4</sub>. filtered, and evaporated *in vacuo* to leave the title compound **ILc** as 91 g (86%) thick oil. H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  3.67 (s, 3), 2.3 (m, 4), 2.17 (s, 3), 1.12 (s, 3), 0.97 (m, 2), 0.91 (s, 3).

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**Step 3**. (1R,3S)-METHYL 3-(ACETOXYMETHYL)-2,2-DIMETHYLCYCLOPROPANEACETATE\_.

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A solution of ILc 91 g of the product of the preceding step and  $0.7 \, \text{L}$  1,1,2-trichloroethane was treated with 165 g of 70% m-chloroperbenzoic acid. The

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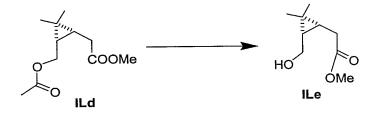
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mixture was stirred at ambient temperature for 1 hr, then heated with an oil bath to maintain a reaction temperature of 65-70°C for 1 hr., and then heated at 75°C for 1 hr. more. The mixture was cooled, filtered on a Buchner funnel, and the filter cake was washed with fresh trichloroethane. The combined filtrate and washings were concentrated *in vacuo* to 0.5 L, and the residue was diluted with 2.5 L of hexane-Et<sub>2</sub>O (3:1). The organic solution was washed repeatedly with a solution of 3.5% aqueous  $K_2CO_3$ -brine (3:1; 8 x 0.9 L), then with brine, then dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated *in vacuo* to leave the title compound **ILd** as 98 g (100%) thick oil. H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  4.1-3.9 (m, 2), 3.68 (s, 3), 2.34 (d, 2), 2.04 (s, 3), 1.12 (s, 3), 1.04 (m, 2), 1.00 (s, 3).

# **Step 4.** (1R,3S)-METHYL 3-(HYDROXYMETHYL)-2,2-DIMETHYLCYCLOPROPANEACETATE



A solution of 98 g **ILd** of the product of the preceding step and 1 L methanol was treated with 19 g  $K_2CO_3$ , and the mixture was stirred at 30°C for 1 hr. The mixture was concentrated *in vacuo* to remove 0.6 L methanol, the residue was quenched with cold 10 % aqueous  $KH_2PO_4$ , and the mixture was extracted with EtOAc. The extract was washed with brine, dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated *in vacuo* to leave 70 g (89%) of the title compound **ILe** as a gum. H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  3.80 (q, 1), 3.73 (s, 3), 3.52 (m, 1), 2.68 (d of d, 1), 2.23 (d of d, 1), 1.09 (s, 3), 1.1-0.9 (m, 2), 0.98 (s,3).

Step 5. (1S,6R)-7,7-DIMETHYL-3-OXABICYCLO[4.1.0]HEPTAN-4-ONE.

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A solution of **ILe** 70 g of the product of the preceding step and 1.1 L xylenes was treated with 30.8 g DBU. The solution was heated to a gentle reflux for 18 hr. as methanol was removed from the distillate. The solution was cooled, washed with cold 1 N HCl, then with brine; dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated *in vacuo*. The residue was chromatographed on 600 g silica gel using a gradient of  $CH_2Cl_2$  to 1:10 EtOAc- $CH_2Cl_2$  to obtain the title compound **ILf** as 54 g (94%) oil. H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  4.71 (d of d, 1), 4.04 (d of d, 1), 2.75 (d of d, 1), 2.16 (d of d, 1), 1.16 (s, 3), 1.25 (m, 1), 1.12 (s, 3).

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**Step 6**. (1S,6R,5E)-7,7-DIMETHYL-3-OXABICYCLO[4.1.0]HEPTANE-4,5-DIONE, 5-OXIME.

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A solution of 42 g of the product of the preceding step **ILf** and 300 mL anhydrous toluene was treated with 102 mL of 90% *tert*-butylnitrite. The stirred mixture was alternately heated and cooled as needed as 45 g potassium *tert*-butoxide was added in 6 portions over 20 minutes at 30-35°C. Then 180 mL of anhydrous methanol was added, the temperature raised to  $40^{\circ}$ C, and stirring continued at  $40^{\circ}$ C for 2.5 hr. The mixture was cooled, quenched with a cold solution of 1.1 L of 10% aqueous and 20 mL 12N HCl, then extracted with EtOAc-toluene (3:1). The extracts were washed with 5% aqueous NaHCO<sub>3</sub>, then brine; dried over anhydrous MgSO<sub>4</sub>, filtered, and evaporated *in vacuo*. The residue (25 g) was chromatographed on 150 g silica gel using a gradient of CH<sub>2</sub>Cl<sub>2</sub> to 35:65 EtOAc-CH<sub>2</sub>Cl<sub>2</sub> to obtain 15 g (29%)of the title compound **ILg** as an oil. H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  4.82 (d of d, 1), 4.55 (d of d, 1), 2.40 (d, 1), 1.49 (m, 1), 1.27 (s, 3), 1.18 (s, 3).

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Step 7.

A solution of 18 g of the product of the preceding step **ILg** and 400 mL EtOAc was treated with 32 g di-*tert*-butyldicarbonate (Boc<sub>2</sub>O), and 2.0 g of 10% Pd on carbon. The mixture was hydrogenated at 2.5 atm for 18 hr, filtered, and the filtrate evaporated to leave 36 g of the title compound mixed with Boc<sub>2</sub>O, which was taken directly to the next step. A portion was chromatographed to obtain **ILh** as pure title compound: H<sup>1</sup>NMR (DMSO-d<sub>6</sub>)  $\delta$  7.28 (d, N<u>H</u>), 4.76-4.64 (m, 2), 4.44 (d, 1), 1.40 (s, 9), 1.24 (m, 1), 1.11 (m, 2), 1.07 (s, 3), 0.99 (s, 3).

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# Step 8. (1R,3S)-METHYL ALPHA(S)-[[(1,1-DIMETHYLETHOXY)CARBONYL]AMINO]-3-(HYDROXYMETHYL)-2,2-

DIMETHYLCYCLOPROPANEACETATE

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A solution of 35 g of **ILh** the product mixture of the preceding step and 350 mL anhydrous methanol was treated with 12 g of finely ground anhydrous  $K_2CO_3$ . The mixture was vigorously stirred for 2 hr., concentrated *in vacuo* with a 25°C bath, and then quenched with 0.6 L of 10% aqueous  $KH_2PO_4$ . The solution was extracted with EtOAc-hexane (95:5; 2 x 200 mL), the extracts were washed with brine, dried over anhydrous MgSO<sub>4</sub>, filtered, and the filtrate was evaporated *in vacuo* to leave **ILi** 22 g (70%) of the title compound as a gum mixture of the two epimers in an  $\alpha$ - $S/\alpha$ -R ratio of 8:2, which did not have to be separated for the present purpose. A portion was chromatographed with  $Et_2O$ -hexane (60:40) to obtain pure  $\alpha$ -S-epimer of the title compound:  $H^1NMR$  (CDCl<sub>3</sub>)  $\delta$  5.2 (br s, 1), 4.05 (br s, 1), 3.81 (m, 1), 3.76 (s, 3), 3.65 (m, 1), 1.43 (s, 9), 1.14 (s, 3), 1.06 (s, 3), 1.05 (m, 1), 0.86 (m, 1). Optical rotation:  $[\alpha]_D^{25}$  – 62.9° (c=1, MeOH). Elemental analysis: theory C 58.52, H 8.77, N 4.87; found C 58.48, H 8.75, N 5.10...

Further elution provided the  $\alpha$ -R-epimer of the title compound: H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  4.95 (br d, 1), 4.03 (m, 1), 3.82 (m, 1), 3.78 (s, 3), 3.71 (m, 1), 1.44 (s, 9), 1.13 (m, 1), 1.10 (s, 3), 1.08 (s, 3), 0.86 (m, 1). Optical rotation:  $[\alpha]_D^{25}$  –

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32.8° (c=1, MeOH). Elemental analysis: theory C 58.52, H 8.77, N 4.87; found C 58.46, H 8.69, N 4.74.

5 **Step 9**. (1R,5S)-6,6-DIMETHYL-,3-AZABICYCLO[3.1.0]HEXANE-2(S),3-DICARBOXYLIC ACID 3-(1,1-DIMETHYLETHYL) 2-METHYL ESTER

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A solution of 21.6 g triphenylphosphine and 250 mL anhydrous THF was cooled to -10 °C and treated dropwise with 16.2 g diisopropylazodicarboxylate as the temperature of the reaction rose to +5 °C. After 5 minutes additional stirring, the mixture was treated a solution of 19.7 g of ILi the product mixture of the preceding step in 35 mL THF. After 10 minutes additional stirring, the mixture was heated at reflux for 3 hr., cooled, and evaporated in vacuo. The residue was transferred to a separatory funnel with a total of 450 mL of methanol-water (1:1), and he 2 phase mixture was extracted with hexane (7 x 225 mL). The combined extracts were washed with 20 mL of methanol-water (1:1), then brine; dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated in vacuo. The residue was taken up in 400 mL hexane, suctionfiltered through a pad of 30 g silica gel, and the silica pad was eluted with an additional 210 mL of EtOAc-hexane (1:9). The combined filtrates were evaporated in vacuo to leave 12.8 g (69%) of the title compound ILj as a gum contaminated with small 2 epimers, а of diisopropylhydrazinedicarboxylate, but suitable for the subsequent reactions.

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The pure S-epimer of the preceding step was treated in the same fashion to afford the pure S-epimer of the title compound:  $H^1NMR$  (CDCl<sub>3</sub>)  $\delta$  4.21 and 4.09 (s+s, 1), 3.75 (s, 3), 3.65 (m, 1), 3.41 (m, 1), 1.44 and 1.39 (s+s, 9), 1.38 (m, 2), 1.03 (s, 3), 0.98 and 0.97 (s+s, 3). Elemental analysis: theory C 62.43, H .8.61, N 5.20; found C 61.82, H 8.67, N 5.15.

The *R*-epimer of the preceding step was treated in the same fashion to afford the *R*-epimer of the title compound:  $H^1NMR$  (CDCl<sub>3</sub>)  $\delta$  4.49 and 4.30 (d+d, 1), 3.62 (s, 3), 3.59 (m, 1), 3.42 (m, 1), 1.65 (m, 1), 1.45 and 1.39 (s+s, 9), 1.36 (m, 1), 1.10 (s, 3), 0.99 (s, 3).

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#### Step 10.

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A solution of 14.5 g of the product mixture **ILj** of the preceding step and 270 mL 1,4-dioxane was treated with 135 mL of 1M aqueous LiOH, and the mixture was heated at  $80^{\circ}$ C for 4 hr. The mixture was cooled, concentrated *in vacuo* to half volume, diluted with 200 mL water, and extracted with hexane. The aqueous layer was chilled and treated with a solution of 9 ml of 12N HCl in 50 mL of 10% aqueous KH<sub>2</sub>PO<sub>4</sub>, and then extracted with EtOAc. The extract was washed with brine, dried over anhydrous Na<sub>2</sub>SO<sub>4</sub>, filtered, and the filtrate evaporated *in vacuo* to leave the title compound **IL** as 10.8 g (78%) gum, > 90% chemically and diasteriomerically pure by PMR, and suitable for subsequent synthesis: H<sup>1</sup>NMR (CDCl<sub>3</sub>)  $\delta$  4.20 and 4.11 (s+s, 1), 3.62 (m, 1), 3.44 (m, 1), 1.68 and 1.45 (d+unk,

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1), 1.46 and 1.40 (s+s, 9), 1.45 (m buried under 1.46, 1), 1.07 (s+s,  $\Box \Box = 2$  Hz, 3), 0.99 and 0.95 (s+s, 3).

A number of inhibitors described in **table-6** using the intermediates **IL** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

#### **Example L** Preparation of intermediate of Formula L

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 $\mathbf{L}$ 

Step 1

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To a mixture of **La** (10.0 g, 50.0 mmole), 2-[(trimethylsilyl) methyl]-2-propanen-1-yl acetate (22.0 g, 118 mmole) and triisopropyl phosphite (18.6 g, 89.2 mmole) in toluene (50 ml) was added palladium (II) acetate (2.5 g, 11 mmole)

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with stirring at room temperature under an Ar atmosphere. It was heated to 120 °C (oil bath) for thirteen hours. Cooling down to room temperature followed by flash chromatography (CH<sub>2</sub>Cl<sub>2</sub>: Hexane = 4:1) provided 9.55 gram of **Lb** (75%).  $[\Box]^{25}$  = +132 ° (CHCl<sub>3</sub>). HRMS (FAB) Calcd for C<sub>16</sub>H<sub>18</sub>NO<sub>2</sub> (MH+): 256.1338; found: 256.1340.

#### Step 2

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To a solution of **Lb** (2 g, 7.8 mmol) in anhydrous THF (50 ml) was added LAH (1.13g, 28.9 mmol) in small portions at 0  $^{\circ}$ C. The mixture then refluxed for six hours before cooled to 0  $^{\circ}$ C. To the reaction were carefully added 2ml of H<sub>2</sub>O, 2ml of 15% NaOH and 6 ml of H<sub>2</sub>O. The solid was removed by filtration and the concentrated filtrate was chromatographed (2% MeOH in CH<sub>2</sub>Cl<sub>2</sub>) to give 1.33 gram of **Lc** (70%). HRMS (FAB) Calcd for C<sub>16</sub>H<sub>22</sub>NO (MH+): 244.1701; found: 244.1697.

#### 20 **Step 3**

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A mixture of compound  $\mathbf{Lc}$  (1.33 g, 5.46 mmol) and 10% Pd on carbon (1.3 gram) in acetic acid (20 ml) was hydrogenated under 60 psi for three days. The catalyst was filtered off and the filtrate was concentrated in vacuum. The residue was dissolved in 20 ml of 4N HCl in dioxane and the solution was evaporated to dryness. Compound  $\mathbf{L}$  was obtained in 1.04 gram (100%) as a 1: 1 mixture of two epimers. HRMS (FAB) Calcd for  $C_9H_{18}NO$  (MH+): 156.1388; found: 156.1390.

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A number of inhibitors described in **table-6** using the intermediates **L** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

### Example LI Preparation of intermediate of Formula LI

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 $\mathbf{L}\mathbf{I}$ 

Step 1

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$$\begin{array}{c|c} O_3 & O_3 \\ \hline O_1 & O_2 \\ \hline O_2 & O_3 \\ \hline O_3 & O_4 \\ \hline O_4 & O_5 \\ \hline O_5 & O_7 \\ \hline O_7 & O$$

Compound **Lb** (2.6 g, 10.2 mmol) in a mixture of CH<sub>2</sub>Cl<sub>2</sub> (30 ml) and <sup>i</sup>PrOH (10 ml) was ozonized at –78 °C until a bluish color persisted (Ca. 40 minutes). Dimethyl sulfide (10 ml) was added and the solution was stirred at room temperature over night. The solvent was removed in vacuum and the residue was partitioned between water and EtOAc. The organic phase was washed with brine, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated. Flash chromatography (2% MeOH in CH<sub>2</sub>Cl<sub>2</sub>) provided 2.32 gram of **Lla** (77%). MS (MH+, FAB) = 257.

#### Step 2

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To a solution of **Lia** (0.86 g, 3.35 mmol) in dry  $CH_2Cl_2$  (30 ml) was added dimethylaminosulfur trifluoride (methyl DAST, 2.23 g, 16.8 mmol) at room temperature. The solution was stirred at room temperature for two days. It was

carefully added to a mixture of ice and saturated NaHCO<sub>3</sub> and extracted with EtOAc. The EtOAc solution was washed with brine, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated. The residue was chromatographed (0.8 % of MeOH in CH<sub>2</sub>Cl<sub>2</sub>) to give **LIb** (0.82 g, 88%). HRMS (FAB) Calcd for C<sub>15</sub>H<sub>16</sub>NO<sub>2</sub>F<sub>2</sub> (MH+): 280.1149; found: 280.1152.

#### Step 3

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By following the same procedures as described for the preparation of L from Lb through L 0.44 gram of Llb provided 0.31 gram of Ll (92% in two steps). . HRMS (FAB) Calcd for  $C_8H_{14}NOF_2$  (MH+): 178.1043; found: 178.1042.

A number of inhibitors described in **table-6** using the intermediates **LI** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV, XXVIII, XXIX, and XXXX** 

## Example LII Preparation of intermediate of Formula LII

310

#### Step 1

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Compound **Lb** (3.74 g, 14.7 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (30 ml) was ozonized at –78 °C until a bluish color persisted (Ca. 60 minutes). It was purged with N<sub>2</sub> for 5 min, and was added to a cold solution of NaBH<sub>4</sub> (4.44g, 117 mmol) in 50 ml of EtOH/H2O (1: 1). It was stirred for 12 hrs at RT then extracted twice with EtOAc. The combined organic layer was washed with brine, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated. The residue was chromatographed (2% MeOH in CH<sub>2</sub>Cl<sub>2</sub>) to give **LIIa** (2.19 g, 58%). HRMS (FAB) Calcd for C<sub>15</sub>H<sub>18</sub>NO<sub>3</sub> (MH+): 260.1287; found: 260.1283.

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#### Step 2

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To a solution of **Lila** (2.18 g, 8.40 mmol) in dry pyridine (50 ml) were added toluenesulfonyl chloride (3.2 g, 16.8 mmol) and N, N-dimethylaminopyridine (1.03 g, 8.40 mmol). It was stirred at RT for 3 days and concentrated in vacuum. The residue was partitioned between 3% citric acid and EtOAc. The organic layer was washed with 3% citric acid again, followed by brine. After removing the solvent the residue was chromatographed to provide **Lilb** (2.54 g, 73%). HRMS (FAB) Calcd for  $C_{22}H_{24}SNO_5$  (MH+): 414.1375; found: 414.1378.

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Step 3

By following the same procedures as described for the preparation of L from Lb through L, 2.53 gram of LIIb provided 1.03 gram of LII (95% in two steps). HRMS (FAB) Calcd for  $C_8H_{16}NO$  (MH+): 142.1232; found: 142.1233.

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A number of inhibitors described in **table-6** using the intermediates **LII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

#### 5 Example LIII Preparation of intermediate of Formula LIII

Step 1

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$$\begin{array}{c} \text{CH}_2\text{CI}_2\\ \text{(Et)}_2\text{Zn}\\ \text{CF}_3\text{COOH} \end{array}$$

To 7.84 mmol of diethyl zinc (I N in hexane) in dry CH<sub>2</sub>Cl<sub>2</sub> (30 ml) was added trifluoroacetic acid (0.893 g, 7.84 mmol) dropwise at 0 °C. Upon stirring for an additional 20 min diiodomethane (2.10 g, 7.84 mmol) was added, followed by **Lb** (1 g, 3.92 mmol) in 5 ml of CH<sub>2</sub>Cl<sub>2</sub> in 20 min. The ice bath was removed and the mixture was stirred at RT for 14 hours. The reaction was quenched by saturated NH4Cl and extracted with EtOAc. The EtOAc solution was washed with

saturated  $Na_2SO_4$ , followed by brine and concentrated in vacuum. The residue was chromatographed to provide **LIIIa** (4.61 g, 73%). HRMS (FAB) Calcd for  $C_{17}H_{20}NO_2$  (MH+): 270.1494; found: 270.1497.

#### Step 2

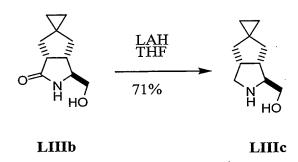
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Trifluoroacetic acid (TFA, 10 ml) was added to a solution of **LIIIa** (4.6 g, 17.1 mmol) in THF (20 ml) and  $H_2O$  (20 ml) at RT. After stirring overnight the solvents were removed in vacuum. The residue was partitioned between saturated NaHCO<sub>3</sub> and EtOAc. The aqueous phase was back extracted with EtOAc five times. The combined organic phase was dried over Na<sub>2</sub>SO4 and concentrated. The residue was chromatographed to give **LIIIb** (3.1 g, 100%). HRMS (FAB) Calcd for  $C_{10}H_{16}NO_2$  (MH+): 182.1181; found: 180.1182.

Step 3



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LAH (1.76 g, 46.3 mmol) was added to **Lillb** in dry THF (50 ml) in small portions at 0 °C. The mixture then refluxed for six hours before cooled to 0 °C. To the reaction were carefully added 2ml of H<sub>2</sub>O, 2ml of 15% NaOH and 6 ml of H<sub>2</sub>O. The solid was removed by filtration and the concentrated filtrate was chromatographed (30% MeOH in  $CH_2Cl_2$  with 1%  $NH_4OH$ ) to give 0.39 gram of **Lillc** (71%). HRMS (FAB) Calcd for  $C_{10}H_{18}NO$  (MH+): 168.1388; found: 168.1389.

#### Step 4

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To a mixture of **Lilic** (0.5 g, 2.99 mmol), **Lilid** (0.69 g, 2.99 mmol) and HATU (1.14 g, 3 mmol) in dry DMF (20 ml) was added N, N-diisopropylethylamine (1 ml, 5.89 mmol)) at 0  $^{\circ}$ C. It was stirred at RT for 3 hrs. The reaction mixture was partitioned between H<sub>2</sub>O and EtOAc. The organic layer was successively washed with 3% citric acid, saturated NaHSO<sub>4</sub> and brine, dried over Na<sub>2</sub>SO4 and concentrated. The product **Lilie** (0.978g, 86%) thus obtained was sufficiently pure for the next step. HRMS (FAB) Calcd for C<sub>21</sub>H<sub>37</sub>N<sub>2</sub>O<sub>4</sub> (MH+): 381.2910; found: 381.2749.

Step 5

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To a solution of **LIIIe** (0.49 g, 1.29 mmol) in acetone (20 ml) was added Jone's reagent (2 ml of 2.5 M solution, 5 mmol) at 0 °C. It was stirred at 0 °C for 20 min, then at RT for 30 hrs. To this mixture were successively added EtOAc (50 ml), anhydrous  $N_{a2}SO_4$  (3 g), celite (2g) and <sup>i</sup>PrOH (1 ml). It was stirred vigorously for 20 min. The solid was filtered off. The filtrate was washed with 3% citric acid, dried over  $Na_2SO_4$  and concentrated in vacuum. The residue was chromatographed (3% MeOH in  $CH_2Cl_2$ , 0.5% acetic acid) to provide **LIII** (0.48 g, 94%). HRMS (FAB) Calcd for  $C_{21}H_{35}N_2O_5$  (MH+): 395.2546; found: 395.2543.

A number of inhibitors described in **table-6** using the intermediates **LIII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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#### **Example LIV Preparation of intermediate of Formula LIV**

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#### Step 1

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Compound **Lille** (0.41 g, 1.08 mmol) in a mixture of solvent of AcOH (10 ml) and EtOAc (20 ml) containing PtO<sub>2</sub> (1 g) was hydrogenated under 1 atm of H<sub>2</sub> for 3 hrs. The catalyst was removed by filtration and the filtrate was concentrated in vacuum to provide **LIV** (0.41g, 100%). HRMS (FAB) Calcd for  $C_{21}H_{39}N_2O_5$  (MH+): 383.2910; found: 383.2906.

A number of inhibitors described in **table-6** using the intermediates **LIV** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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# **Example LV Preparation of intermediate of Formula LV**

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#### Step 1

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Potassium bis(trimethylsilyl)amide (158ml of a 0.5M solution in toluene; 79mmol) was added to a stirred suspension of cyclopropyltriphenylphosphonium bromide (33.12g; 86.4mmol) in anhydrous tetrahydrofuran (130ml) and the resulting orange mixture was stirred under an atmosphere of nitrogen at room temperature for a period of 1h., before the addition of the aldehyde **LVa** (9.68g; 42.2mmol) in THF (8ml). The reaction was then refluxed under an atmosphere of nitrogen for a period of 2h. After cooling, methanol, diethyl ether and Rochelles salt were added. The organic phase was separated, washed with brine, dried and concentrated under reduced pressure. The crude reaction product was purified by silica gel column chromatography using EtOAc-hexane (1:99) to EtOAc-hexane (5:95) to provide the alkene **LVb** (8.47g) as a yellow oil.

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A solution of 1M HCl in MeOH/MeOAc was prepared by adding14.2ml of acetylchloride dropwise into cold methanol and diluting the resulting solution to 200ml at room temperature.

The carbamate **LVb** (9.49g; 37.5mmol) was dissolved in methanol (12ml) and added to 1M HCl in MeOH/MeOAc (150ml) while cooled in an ice bath. The resulting mixture was maintained at this temperature for 1h., then the ice bath was removed and stirring continued overnight at room temperature. The volatiles were removed under reduced preesure to yield a yellow oil which was used in the next step without purification.

The yellow oil is dissolved in a mixture of THF (30ml) and MeOH (20ml) and treated with triethylamine (15ml; 108mmol) until the solution was pH=9-10. After placing in an ice bath, the mixture was treated with N-Boc-Gly-OSu (11.22g; 41mmol). The icebath was withdrawn and the reaction stirred at room temp. for 1h. The volatiles were removed under reduced pressure and the residue was purified by silica gel column chromatography using methanol (1-3%) in dichloromethane providing the desired amide **LVc** (9.09g).

Step 3

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The alcohol **LVc** (9.09g; 33.6mmol) was dissolved in acetone (118.5ml) and treated with 2,2-dimethoxypropane (37.4ml;304mmol) and BF<sub>3</sub>:Et2O (0.32ml; 2.6mmol) and the resulting mixture was stirred at room temperature for a period of 5.5h The reaction solution was treated with a few drops of triethylamine and the volatiles were removed under reduced pressure. The residue was purified by silica gel column chromatography using 5-25% EtOAc in hexanes to provide the N,O-acetal **LVd** (8.85g).

#### Step 4

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The carbamate **LVd** (8.81g; 28.4mmol) was dissloved in acetonitrile (45ml) and the solution was cooled to –40C under an atmosphere of nitrogen. Pyridine (6.9ml; 85.3mmol) followed by nitrosium tetrafluoroborate (6.63g; 56.8mmol) were added and the resulting reaction mixture maintained below 0C until TLC indicated

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that no starting material remained (approx. 2.25h.). Pyrrolidine (20ml; 240mmol) was added and the cooling bath was withdrawn and stirring was continued at room temperature for 1h. and then the volatiles were removed under reduced pressure. The residue was quickly passed through a pad of silica gel to provide a yellow oil.

The yellow oil was dissolved in anhydrous benzene (220ml) and palladium acetate (0.317g; 1.41mmol) was added before heating the resulting mixture to reflux, under an atmosphere of nitrogen for a period of 1.5h. After cooling, the volatiles were removed under reduced pressure and the dark residue was purified by silica gel column chromatography using EtOAc-hexane (1:4) to provide the I) the trans- pyrrolidinone **LVe** (1.94g) followed by ii) the cis-pyrolidinone **LVf** (1.97g).

#### Step 5

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Freshly prepared 1M HCI in MeOAc/MeOH (10ml; as described above) was added to the N,O-acetal **LVe** and stirred at room temperature for 1h. The solvent was removed under reduced pressure and the residue was purified by silica gel column chromatography using 0-4%MeOH in dichloromethane as eluent to provide the desired alcohol **LVg** (1.42g), a yellow oil.

Step 6

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To a solution of the lactam **LVg** (1.29g; 8.44mmol) in anhydrous tetrahydrofuran (55ml) was added lithium aluminum hydride (2.40g; 63.2mmol) and the resulting mixture was refluxed for 8h. After cooling, water, followed by 15% aq. NaOH were added and the resulting mixture was filtered through celite and the solid was washed thoroughly with THF and MeOH. The solvent was removed under reduced pressure and the residue redisolved in dichloromethane, dried and concentrated under reduced pressure to provide the pyrrolidine, used without purification.

Hunigs base (4.5ml; 25.8mmol) was added to a mixture of N-Boc-L-tert-Leu-OH (1.76g; 7.6mmol), The crude pyrrolidine and HATU (2.89g; 7.6mmol) in anhydrous dichloromethane (50ml) at –60C, under an atmosphere of nitrogen. The resulting reaction was allowed to come to room temperature slowly, overnight. EtOAc was added and the yellow solution was washed with dil.aq. HCl, sat. aq. sodium bicarbonate, water, brine. The organic layer was dried and concentrated under reduced pressure. The residue was purified by silica gel column chromatography using EtOAc:hexanes (1:3) to give the desired amide **LVh** (2.00g).

#### Step 7

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The alcohol **LVh** (2.00g; 5.67mmol) was dissolved in acetone (116ml) and cooled in an ice bath for 10min. This solution was then added to a cooled Jones reagent (14.2ml; approx 2mmol/ml) and the resulting mixture was stirred at 5C for 0.5h and the cooling bath was removed. The reaction was stirred for a further 2h. at room temp., before adding to sodium sulfate (28.54g), celite (15g) in EtOAc (100ml). Isopropanol (15ml) was added after 1min and then stirred for a further 10min. and filtered. The filtrate was concentrated under reduced pressure, providing a brown oil which was dissolved in EtOAc. This solution was washed with water, 3% aq. citric acid, brine, dried and concentrated to provide the desired carboxylic acid **LV** (1.64g) as a white solid.

**NOTE:** Alternatively XXIVc- acid, XXVIg-acid, XXVIIc, could be synthesized following the procedure mentioned above in good yields. A number of inhibitors described in **table-6** using the intermediates **LV** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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The synthesis of **LVIa** was accomplished following the procedure reported in Bailey, J, H.; Cherry, D, T.; Crapnell, K, M.; Moloney, M. G.; Shim, S. B.;

Bamford, M. J.; Lamont, R. B. Tetrahedron (1997), 53, 11731. This was converted to **LVI** similar to the procedure for **LIII** (Step2 to Step 5)

A number of inhibitors described in **table-6** using the intermediates **LVI** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

# **Example LVII Preparation of intermediate of Formula LVII**

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To the stirred solution of TFA (22.6 mL, 305 mmol), water (120 mL) and [bis(trifluoroacetoxy)iodo]benzene (131 g, 305 mmol) in acetonitrile (600 mL) was added cyclobutyl methyl ketone **LVIIa** (15.0 g, 153 mmol). The resulting solution was heated to reflux and stirred for 4 h. Acetonitrile was removed in vacuo. Water (120 mL) was added and the mixture was extracted with diethyl ether (2 X 500 mL). The combined organic solution was dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo. The crude product was purified by flash chromatography with 30% Et<sub>2</sub>O/hexane to give 8.82 g of **LVIIb** (51%).

#### 10 **Step 2**

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To the solution of **LVIIb** (1.4 g, 12.3 mmol), acetic anhydride (1.3 mL, 13.5 mmol) and triethyl amine (3.4 mL, 24.5 mmol) in  $CH_2Cl_2$  (50 mL) was added DMAP (0.67 g, 5.5 mmol). The reaction mixture was stirred at rt for 4 h before 5%  $H_3PO_4$  (50 mL) was added. After layers were separated, the aqueous layer was extracted with  $CH_2Cl_2$  (2 X 50 mL). Combined organic solution was dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo to 2.0 g crude product **LVIIc**.

Step 3

The mixture of **LVIIc** (1.9 g, 12.2 mmol) and DAST (Diethyl amino sulfur trifluoride, 3.0 mL, 22.3 mmol) was heated to 50°C and stirred for 2 h. The mixturte was then slowly poured into ice water (50 mL), and extracted with diethyl ether (3 X 50 mL). The combined organic solution was dried (MgSO<sub>4</sub>), filtered and concentrated in vacuo. The crude product was purified by flash chromatography with 10-40% Et<sub>2</sub>O/hexane to give 0.62 g of **LVIId** (29%) and 0.68 g starting material **LVIIc**.

### Step 4

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The mixture of **LVIId** (3.10 g, 17.4 mmol) and lithium hydroxide (0.84 g, 34.8 mmol) in water (10 mL) was vigorously stirred at rt for 6 h before it was diluted with water (50 mL) and extracted with diethyl ether (3 X 60 mL). The combined organic solution was dried (MgSO<sub>4</sub>), filtered and carefully concentrated in vacuo to give **LVIIe** 2.68 g crude product.

#### Step 5

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The solution of compound **LVIIe** and Dess-Martin reagent in CH<sub>2</sub>Cl<sub>2</sub> was stirred at rt for 1 h before Ph<sub>3</sub>P=CHCO<sub>2</sub>Bn was added and stirring was continued for another 20 h. Diethyl ether was added followed by saturated NaS2O3 and saturated NaHCO3 solutions. After stirred for 15 min, the layers were separated. The organic solution was washed with saturated NaHCO3 and brine, dried

(MgSO<sub>4</sub>), filtered and concentrated in vacuo. The crude product was purified by flash chromatography to give the desired product **LVIIf**.

## Step 6

Compound **LVIIg** was prepared as described above (Step 4, Example **XXXXIII**) with appropriate amounts of reagents.

#### 10 Step 7

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Catalytic hydrogenation of **LVIIg** over 10%Pd/C in MeOH followed by treatment with Boc<sub>2</sub>O in NaHCO<sub>3</sub>/THF/water will afford **LVIIh**.

#### Step 8

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Conversion of LVIIh to compound LVIIi will follow previously described procedures (Step 5, Example XXVIII).

Step 9

Conversion of LVIII to compound LVII follows previously described procedures (Step 9, Example XXIII).

A number of inhibitors described in **table-6** using the intermediates **LVII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

## **Example LVIII Preparation of intermediate of Formula LVIII**

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To a solution of compound **LVIIIa** [for preparation of **LVIIIa** see J. Ramnauth and E. Lee-Ruff, *Can. J. Chem.*, **2001**, *79*, 114-120] (3g) in dichloromethane (75 mL)

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was added DAST (Diethyl amino sulfur trifluoride, 9.1 mL) slowly and the reaction was stirred at room temperature overnight. The mixturte was slowly poured into ice/saturated sodium bicarbonate solution (100/200 mL) with stirring. Added 200 mL of dichloromethane and the organic layer was separated and washed with cold saturated sodium bicarbonate solution, brine, dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated. Purification by column chromatography (5/95 EtOAc/hexanes) afforded 2.59 g of **LVIIIb**.

#### Step 2

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Compound **LVIIIb** (3.42 g) was dissolved in THF/MeOH (1/1, 50 mL). To this was added a solution of potassium carbonate (1.97 g) in water (25 mL). The reaction mixture was stirred at room temperature for 4 hrs and then stored in the freezer (-10°C) overnight. The reaction mixture was warmed to room temperature over 3 hrs when TLC indicated complete consumption of **LVIIIb**. Brine (100 mL) was added to the reaction mixture and was extracted with ethyl ether (3 x 100 mL). The ether layers were combined, dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated to afford a residue (2.77g) which was processed further without purification.

The residue thus obtained was dissolved in CH<sub>2</sub>Cl<sub>2</sub>/DMSO (6/1, 140 mL). To this solution was added benzyl (triphenylphosphoranylidene)acetate (11.7 g) and then Dess-Martin's Periodinane (12.09 g, in three equal portions) carefully. The reaction mixture was stirred at room temperature for 4 hrs and quenched with cold sodium bicarbonate solution (200 mL) and diluted with CH<sub>2</sub>Cl<sub>2</sub> (100 mL). The CH<sub>2</sub>Cl<sub>2</sub> layer was separated and washed with 10% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> solution (125 mL), NaHCO<sub>3</sub> solution (125 mL), water (125 mL), dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated.

The residue was purified by column chromatography using  $50/50 \text{ CH}_2\text{Cl}_2/\text{hexanes}$  to afford the required compound, **LVIIIc** (2.25 g).

## Step 3

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Compound **LVIIId** was prepared as described above (Step 4, Example **XXXXIII**) with appropriate amounts of reagents.

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## Step 4

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Catalytic hydrogenation of LVIIId over 10%Pd/C in MeOH followed by treatment with  $Boc_2O$  in NaHCO<sub>3</sub>/THF/water will afford LVIIIe.

## Step 5

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Conversion of LVIIIe to compound LVIIIf will follow previously described procedures (Step 5, Example XXVIII).

Step 6

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Conversion of LVIIIF to compound LVIII will follow previously described procedures (Step 9, Example XXIII).

A number of inhibitors described in **table-6** using the intermediates **LVIII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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# **Example LIX Preparation of intermediate of Formula LIX**

Step 1

Commercially available N-Boc protected glycine **LIXa** was reacted with the amine **XV** from Example **XV** in the manner previously described in Example **XXI**, Step 4. The resulting intermediate was then treated with HCl in the manner previously described in Example **XXIII**, Step 9 to afford product **LIXb**.

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Step 2

- Acid LVIIIe (from above) can be reacted with LIXb in the manner previously described in Example XXI, Step 4. The resulting intermediate can then be treated with HCl in the manner previously described in Example XXIII, Step 9 to afford product LIX.
- A number of inhibitors described in **table-6** using the intermediates **LIX** were synthesized following the procedures outlined for preparative **examples XXIX**, and **XXXX**

## **Example LX Preparation of intermediate of Formula LX**

Step 1

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Acid LVIIh (from above) was reacted with LIXb in the manner previously described in Example XXI, Step 4. The resulting intermediate was then treated with HCl in the manner previously described in Example XXIII, Step 9 to afford product LX.

A number of inhibitors described in **table-6** using the intermediates **LIX** were synthesized following the procedures outlined for preparative **examples XXIX**, and **XXXX** 

## **Example LXI Preparation of intermediate of Formula LXI**

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Step 1

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To a solution of methyl nitroacetate **LXIa** (3 g) in benzene (15 mL) was added dimethoxy propane (6.2 mL) and acetic anhydride (4.87 mL). The mixture was refluxed overnight. The reaction mixture was concentrated. It was resubjected to the above conditions. The residue after concentration was taken in EtOAc (100 mL) and washed with cold saturated sodium bicarbonate solution (3 x 75 mL), brine (100 mL), dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated.

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The residue from above was taken in MeOH (150 mL). Boc<sub>2</sub>O (6 g) and 10% Pd/C (150 mg) were added and the mixture was hydrogenated using a balloon filled with hydrogen gas. After 24 hours, added some more 10% Pd/C and repeated the procedure. The reaction mixture was then filtered through celite, concentrated, and purified by column chromatography using 5/95 to 10/90 EtOAc/hexanes to afford 2.2 g of **LXIb**.

Compound **LXIb** was prepared from **LXI** in quantitative yield using procedures described above for the conversion of **XXVIg** to **XXVIh** (see Example **XXVI**).

A number of inhibitors described in **table-6** using the intermediates **LVIII** were synthesized following the procedures outlined for preparative **examples XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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## **Example LXII Preparation of intermediate of Formula LXII**

LXII

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## Step1:

Butenol **LXIIa** was reacted in the manner previously described in preparative example XXXXIII step 1 to afford product **LXIIb** 

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## Step2:

To 5.3g (30 mmol) of **LXIIb** product of step 1 was added 25 mg of NaF. At 110 °C, was added via syringe-pump 1.6equiv (48 mmol, 12g) of TMSfluorosulfonyldifluoroacetate (TFDA) in 2h. After 2h, reaction is cooled down to RT. Purification by flash column chromatography (3% EtOAc, Hexane, silica) furnished **LXIIc**, Product of step 2 (4.93g).

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### Step3:

20 Product of step 2, **LXIIc** (1g) was treated in the manner previously described in step3 of preparative **XXXXIII** to afford **LXIId**, Product of step 3 (0.89g)

## Step4:

Product of step 3, **LXIId** (3.2g) was treated in the manner previously described in step4 of preparative **XXXXIII** to afford Product **LXIIe** (1.4g).

Step5:

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Product of step 4, **LXIIe** (0.54g) was treated in the manner previously described in step5 then step6 and finally step7 of preparative example **XXXXIII** to afford Product **LXIIf** (0.24g).

A number of inhibitors described in **table-6** using the intermediate **LXII** were synthesized following the procedures outlined for preparative examples **XXIII**,

XXIV, XXVIII, XXIX, and XXXX

Example LXIII Preparation of intermediate of Formula LXIII

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LXIII

Step1:

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To a –78 °C solution of cyclobutanone (15g, 214 mmol) in THF (100 mL) is added dropwise Allylmagnesiumchloride (2.0 M in THF, 1.1 equiv, 118 mL). After 1 hour, reaction is stopped by the addition of ice and HCl 1.0 N (100 mL). The mixture was diluted with ethyl acetate (~200 ml) and the organic phase was separated; washed with brine and dried over anhydrous MgSO<sub>4</sub>. Concentration in-vacuo and purification by chromatography over silica gel (10% ethyl acetate in n-hexane) provided product **LXIIIb** (21g).

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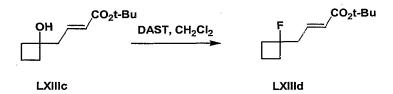
#### Step2:

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To a -78 °C solution of product of step 1, **LXIIIb** (11.2g) in CH<sub>2</sub>Cl<sub>2</sub> (200 mL) is bubbled Ozone until a persistent blue color was observed (after 1 hour). Ozone was stopped and N<sub>2</sub> was flushed into the reaction mixture for 10 minutes. Me<sub>2</sub>S (10 equiv., 7.3 mL) was added and reation was gradually warmed-up to room temperature overnight.

After 18 hours, Ph<sub>3</sub>P=CHCOO<sup>t</sup>Bu (40 g) was added. Stirring was continued for ~24 hrs Evaporation under vacuum provided the crude product which was chromatographed over silica gel (10% ethyl acetate in n-hexane) to provide product **LXIIIc** as a mixture of isomers (6.65g of trans isomer) and (1.9g of cis olefin).

#### Step3:



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To a 0 °C solution of product of step2, **LXIIIc** (0.21g) in CH<sub>2</sub>Cl<sub>2</sub> (3 mL) is added DAST (1.1 equiv., 0.135 mL). After 15 minutes, reaction was stopped by the addition a cold saturated solution of Na<sub>2</sub>CO<sub>3</sub> (150 ml). The mixture was diluted with ethyl acetate (~10 ml) and after stirring for ~30 min the organic phase was separated; washed with brine and dried over anhydrous MgSO<sub>4</sub>. Concentration in-vacuum and purification by chromatography over silica gel (5% to 10% CH<sub>2</sub>Cl<sub>2</sub> in n-hexane) provided **LXIIId** (0.1 g; 47%).

#### Step4:

Product of step 3, **LXIIId** (3.5g) was treated in the manner previously described in step4 of preparative **XXXXIII** to afford Products **LXIIIe** and **LXIIIf** as a mixture (3.25g).

#### 10 **Step5**:

Products of step 4 (LXIIIe+LXIIIf) (2.3g) was treated in the manner previously described in step5 then step6 and finally step7 of preparative example XXXXIII to afford Product LXIII (0.47g).

A number of inhibitors described in **table-6** using the intermediate LXII were synthesized following the procedures outlined for preparative examples **XXIII**,

20 XXIV, XXVIII, XXIX, and XXXX

## **Example LXIV Preparation of intermediate of Formula LXIV**

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LXIV

## Step1:

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Product **LXIIIc** (1.36g) was treated in the manner previously described in step4 of preparative example **XXXXIII** to afford Products **LXIVa** and **LXIVb** as a mixture (1.3g).

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## Step2:

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A stirred solution of Products of step 1 (**LXIVa+LXIVb**) (1.2g) in CH<sub>2</sub>Cl<sub>2</sub> (40 ml) was treated with trifluoroacetic acid (40 ml). After 45 minutes the reaction mixture was concentrated to dryness under vacuum. The residue was chromatographed over silica gel (2% MeOH in CH<sub>2</sub>Cl<sub>2</sub>) to provide products **LXIVc** and **LXIVd** as a mixture (0.97g).

## 10 **Step3**:

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To products of step 2 (**LXIVc+LXIVd**) (0.4g) was added 30 mL of NH<sub>3</sub> (2.0 M in MeOH). After 4 hours, the reaction mixture was concentrated to dryness under vacuum. The residue was preparative chromatography over silica gel (100% CH<sub>3</sub>CN) to provide desired product **LXIVe** (0.3g).

#### Step4:

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Product of step 3 **LXIVe** (0.054g) was treated in the manner previously described in step7 of preparative example XXXXIII to afford Product **LXIV** (0.032g)

A number of inhibitors described in **table-6** using the intermediate **LXII** were synthesized following the procedures outlined for preparative examples **XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

**Example LXV Preparation of intermediate of Formula LXV** 

15 **Step1**:

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To a room temperature solution of paraformaldehyde **LXVa** (12g, 400 mmol) and 1-bromo-1,1-difluorop2-ene **LXVb** (6.3g, 40 mmol) in DMF (100 mL) was added In(0) (6.5g, 57 mmol) and Lil (0.4g, 3 mmol). The resulting slurry was stirred at RTfor 48 h . After 48 h, reaction was filtered trough a pad of celite. The filtrate was diluted with EtOAc (250 mL) and washed with  $H_2O$  (3 times) then brine. The organic phase separated and finally dried over anhydrous MgSO<sub>4</sub>. Evaporation under vacuum provided product **LXVc**, which was used as it is directly in the next step.

## Step2:

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Product of step 1, **LXVc** (4g, 37 mmol) was reacted in the manner previously described in preparative example **XXXXIII step 1** to afford after purification by chromatography over silica gel (10% to 50% CH<sub>2</sub>Cl<sub>2</sub> in n-hexane) product **LXVd** (4.3g).

#### Step3:

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To a solution of the product from step 2, **LXVd** (3.8 g) in ethanol (30 ml) was added 10% Pd/C catalyst (0.76g). The resulting suspension was hydrogenated until NMR experiment indicated complete consumption of the starting material (~4

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hrs). The catalyst was removed by filtration trough a pad of celite and washed with ethanol. The combined filtrate and washings were evaporated under vacuum to dryness to provide the desired product, **LXVe** (3.8g).

## 5 **Step4:**

Product of step 3, **LXVe** (3.4g) was treated in the manner previously described in step3 of **XXXXIII** to afford Product **LXVf** (2.5g).

## Step5:

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Product of step 4, **LXVf** (2g) was treated in the manner previously described in step4 of preparative example **XXXXIII** to afford after purification by chromatography over silica gel (30% EtOAc in n-hexane) to give **LXVg** (0.27g)

and **LXVh** (0.26g).

## Step6:

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Product of step 5 **LXVg** (0.17g) was treated in the manner previously described in step5 then step6 and finally step7 of preparative example **XXXXIII** to afford Product **LXV** (0.025g).

A number of inhibitors described in **table-6** using the intermediate **LXV** were synthesized following the procedures outlined for preparative examples **XXIII**, **XXIV**, **XXVIII**, **XXIX**, and **XXXX** 

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**Seperation of diastereomers**: The diastereomers arising from the  $\alpha$ -center of ketoamide were seperated using either chromatography (SiO<sub>2</sub>) or HPLC (YMC diol column) with Hexane/CH<sub>2</sub>Cl<sub>2</sub>/Isopropanol/CH<sub>3</sub>CN = 85/7.5/6.5/1 as the solvent, as is known to those skilled in the art.

## Assay for HCV Protease Inhibitory Activity:

Spectrophotometric Assay: Spectrophotometric assay for the HCV serine protease was performed on the inventive compounds by following the procedure described by R. Zhang et al, Analytical Biochemistry, 270 (1999) 268-275, the disclosure of which is incorporated herein by reference. The assay based on the proteolysis of chromogenic ester substrates is suitable for the continuous monitoring of HCV NS3 protease activity. The substrates were derived from the P side of the NS5A-NS5B junction sequence (Ac-DTEDVVX(Nva), where X = A or

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P) whose C-terminal carboxyl groups were esterified with one of four different chromophoric alcohols (3- or 4-nitrophenol, 7-hydroxy-4-methyl-coumarin, or 4-phenylazophenol). Presented below are the synthesis, characterization and application of these novel spectrophotometric ester substrates to high throughput screening and detailed kinetic evaluation of HCV NS3 protease inhibitors.

#### Materials and Methods:

Materials: Chemical reagents for assay related buffers were obtained from Sigma Chemical Company (St. Louis, Missouri). Reagents for peptide synthesis were from Aldrich Chemicals, Novabiochem (San Diego, California), Applied Biosystems (Foster City, California) and Perseptive Biosystems (Framingham, Massachusetts). Peptides were synthesized manually or on an automated ABI model 431A synthesizer (from Applied Biosystems). UV/VIS Spectrometer model LAMBDA 12 was from Perkin Elmer (Norwalk, Connecticut) and 96-well UV plates were obtained from Corning (Corning, New York). The prewarming block was from USA Scientific (Ocala, Florida) and the 96-well plate vortexer was from Labline Instruments (Melrose Park, Illinois). A Spectramax Plus microtiter plate reader with monochrometer was obtained from Molecular Devices (Sunnyvale, California).

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Enzyme Preparation: Recombinant heterodimeric HCV NS3/NS4A protease (strain 1a) was prepared by using the procedures published previously (D. L. Sali et al, Biochemistry, 37 (1998) 3392-3401). Protein concentrations were determined by the Biorad dye method using recombinant HCV protease standards previously quantified by amino acid analysis. Prior to assay initiation, the enzyme storage buffer (50 mM sodium phosphate pH 8.0, 300 mM NaCl, 10% glycerol, 0.05% lauryl maltoside and 10 mM DTT) was exchanged for the assay buffer (25 mM MOPS pH 6.5, 300 mM NaCl, 10% glycerol, 0.05% lauryl maltoside, 5 μM EDTA and 5 μM DTT) utilizing a Biorad Bio-Spin P-6 prepacked column.

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<u>Substrate Synthesis and Purification:</u> The synthesis of the substrates was done as reported by R. Zhang *et al*, (*ibid*.) and was initiated by anchoring Fmoc-Nva-OH to 2-chlorotrityl chloride resin using a standard protocol (K. Barlos *et al*, *Int. J. Pept. Protein Res.*, <u>37</u> (1991), 513-520). The peptides were subsequently assembled, using Fmoc chemistry, either manually or on an automatic ABI model 431 peptide synthesizer. The N-acetylated and fully protected peptide fragments were cleaved from the resin either by 10% acetic acid (HOAc) and 10% trifluoroethanol (TFE) in dichloromethane (DCM) for 30 min, or by 2% trifluoroacetic acid (TFA) in DCM for 10 min. The combined filtrate and DCM wash was evaporated azeotropically (or repeatedly extracted by aqueous Na<sub>2</sub>CO<sub>3</sub> solution) to remove the acid used in cleavage. The DCM phase was dried over Na<sub>2</sub>SO<sub>4</sub> and evaporated.

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The ester substrates were assembled using standard acid-alcohol coupling procedures (K. Holmber et al, Acta Chem. Scand., B33 (1979) 410-412). Peptide fragments were dissolved in anhydrous pyridine (30-60 mg/ml) to which 10 molar equivalents of chromophore and a catalytic amount (0.1 eq.) of paratoluenesulfonic acid (pTSA) were added. Dicyclohexylcarbodiimide (DCC, 3 eq.) was added to initiate the coupling reactions. Product formation was monitored by HPLC and found to be complete following 12-72 hour reaction at room temperature. Pyridine solvent was evaporated under vacuum and further removed by azeotropic evaporation with toluene. The peptide ester was deprotected with 95% TFA in DCM for two hours and extracted three times with anhydrous ethyl ether to remove excess chromophore. The deprotected substrate was purified by reversed phase HPLC on a C3 or C8 column with a 30% to 60% acetonitrile gradient (using six column volumes). The overall yield following HPLC purification was approximately 20-30%. The molecular mass was confirmed by electrospray ionization mass spectroscopy. The substrates were stored in dry powder form under desiccation.

<u>Spectra of Substrates and Products:</u> Spectra of substrates and the corresponding chromophore products were obtained in the pH 6.5 assay buffer. Extinction

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coefficients were determined at the optimal off-peak wavelength in 1-cm cuvettes (340 nm for 3-Np and HMC, 370 nm for PAP and 400 nm for 4-Np) using multiple dilutions. The optimal off-peak wavelength was defined as that wavelength yielding the maximum fractional difference in absorbance between substrate and product (product OD - substrate OD)/substrate OD).

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Protease Assay: HCV protease assays were performed at 30°C using a 200 µl reaction mix in a 96-well microtiter plate. Assay buffer conditions (25 mM MOPS pH 6.5, 300 mM NaCl, 10% glycerol, 0.05% lauryl maltoside, 5 µM EDTA and 5 µM DTT) were optimized for the NS3/NS4A heterodimer (D. L. Sali et al, ibid.)). Typically, 150 µl mixtures of buffer, substrate and inhibitor were placed in wells (final concentration of DMSO ≤4 % v/v) and allowed to preincubate at 30 °C for approximately 3 minutes. Fifty µls of prewarmed protease (12 nM, 30°C) in assay buffer, was then used to initiate the reaction (final volume 200 µl). The plates were monitored over the length of the assay (60 minutes) for change in absorbance at the appropriate wavelength (340 nm for 3-Np and HMC, 370 nm for PAP, and 400 nm for 4-Np) using a Spectromax Plus microtiter plate reader equipped with a monochrometer (acceptable results can be obtained with plate readers that utilize cutoff filters). Proteolytic cleavage of the ester linkage between the Nva and the chromophore was monitored at the appropriate wavelength against a no enzyme blank as a control for non-enzymatic hydrolysis. The evaluation of substrate kinetic parameters was performed over a 30-fold substrate concentration range (~6-200 μM). Initial velocities were determined using linear regression and kinetic constants were obtained by fitting the data to the Michaelis-Menten equation using non-linear regression analysis (Mac Curve Fit 1.1, K. Raner). Turnover numbers  $(k_{cat})$  were calculated assuming the enzyme was fully active.

<u>Evaluation of Inhibitors and Inactivators:</u> The inhibition constants (Ki\*) for the competitive inhibitors Ac-D-(D-Gla)-L-I-(Cha)-C-OH (27), Ac-DTEDVVA(Nva)-OH and Ac-DTEDVVP(Nva)-OH were determined experimentally at fixed

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concentrations of enzyme and substrate by plotting  $v_o/v_i$  vs. inhibitor concentration ([I] $_o$ ) according to the rearranged Michaelis-Menten equation for competitive inhibition kinetics:  $v_o/v_i = 1 + [I]_o/(Ki^* (1 + [S]_o/K_m))$ , where  $v_o$  is the uninhibited initial velocity,  $v_i$  is the initial velocity in the presence of inhibitor at any given inhibitor concentration ([I] $_o$ ) and [S] $_o$  is the substrate concentration used. The resulting data were fitted using linear regression and the resulting slope,  $1/(Ki^*(1+[S]_o/K_m))$ , was used to calculate the Ki\* value.

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The obtained Ki\* values for the various compounds of the present invention are given in the afore-mentioned Tables wherein the compounds have been arranged in the order of ranges of Ki\* values. From these test results, it would be apparent to the skilled artisan that the compounds of the invention have excellent utility as NS3-serine protease inhibitors.

While the present invention has been described with in conjunction with the specific embodiments set forth above, many alternatives, modifications and other variations thereof will be apparent to those of ordinary skill in the art. All such alternatives, modifications and variations are intended to fall within the spirit and scope of the present invention.

Та	ы	е	2

Table 2		
Fable 2	STRUCTURE	molecular weight 691.7853
	H,C CH, CH, CH, CH,	691.7853
1		
2	H.C. O. I.	627.7441
2	ÖH,	754 0002
3	CH <sub>3</sub> O N N N CH <sub>3</sub> CH <sub>4</sub>	754.8883
4	N,C, N	527.6259
5	A P P P P P P P P P P P P P P P P P P P	698.7799
6	4,c 0	631.7352
7	H <sub>3</sub> C CH <sub>3</sub> O N N CH <sub>2</sub>	381.476

Table 2		
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	540.6626
8		
9	H,C CH, N N N O N O OH	498.5813
	н,с _ сн,	633.7482
10	CH <sub>3</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	
	H,C COI, N,C COI, N,C COI, N,C COI, N,C COI, N,C COI,	641.7249
11		
12	H <sub>2</sub> C Cd <sub>3</sub> N N N N N N N N N N N N N N N N N N N	641.7249
13	H <sub>1</sub> C CH <sub>1</sub> H <sub>1</sub> C CH <sub>2</sub> H <sub>1</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C	683.8061
13	H <sub>C</sub> CCCH <sub>3</sub>	637.7802
14	H <sub>2</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	331.11302

Table 2		
	H,C CH, N,C CH	637.7802
15		
16	H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C	637.7802
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	625.769
17	uc ,CH <sub>3</sub>	613.6707
	H,C CH, N OH HOOH	-
18	HC CH3 →	613.6707
19	HC CH, HC	010.0707
20	HC CH3	627.6978
	H <sub>3</sub> C CH <sub>3</sub>	609.726
21	H <sub>2</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	
<u> </u>		<u> </u>

able 2		
	H,C, CH, N,	609.726
22	HO	
	H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	609.726
23	°o	
	H <sub>1</sub> C CH <sub>3</sub> N  N  CH <sub>3</sub> N  CH <sub>4</sub> N  CH <sub>5</sub> CH <sub>5</sub> N  CH <sub>5</sub> CH <sub>5</sub> N  CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> N  CH <sub>5</sub> CH <sub>5</sub> N  CH <sub>5</sub>	611.742
24	н <sub>и</sub> с- <sub>О</sub>	600.7183
	H <sub>C</sub> C CH, H <sub>C</sub> C	
25	ң <sub></sub> с <sup>°</sup>	554.7361
90	H <sub>2</sub> C CH <sub>3</sub> N H <sub>3</sub> C CH <sub>3</sub> N H <sub>4</sub> C N	33 117331
26		478.5937
27	H <sub>2</sub> C CH <sub>3</sub> O O	546.7132
	CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> N	070.7 102
28	H <sub>2</sub> C	

Table 2		
	H <sub>3</sub> C CH <sub>3</sub>	562.7562
29	H <sub>2</sub> C	
	H <sub>1</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	699.8519
30	H <sub>3</sub> C	643.7435
32	OH O	509.6077
33	H <sub>C</sub> CH <sub>3</sub>	637.7802
34	H,C CH,	637.7802
	H <sub>2</sub> C H <sub>3</sub> C CH <sub>3</sub> N CH	579.6995
35		· ·

Table 2		
	H,C NH, CH, CH, NH, CH, CH, CH, CH, CH, CH, CH, CH, CH, C	537.6619
36		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	539.6342
37	H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	597.7149
38	H,C CH, OH	
39	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	493.6055
	H <sub>3</sub> C CH <sub>2</sub>	632.8044
41		747.8965
	H <sub>2</sub> N	523.6348
42	н,с	

Table 2	^	500 7004
	N N N CH <sub>2</sub> CH <sub>3</sub> CH <sub>4</sub>	598.7024
43		
	H <sub>C</sub> C CH <sub>3</sub>	578.712
44		
		495.6214
45	,;;;;	627.7878
46	H <sub>2</sub> C OH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	
	H P CH <sub>2</sub>	541.6501
47	СН	543.666
48	H N O CH3	
	H N O O O O O O	501.5847
	<u> </u>	

Table 2		
		656.7394
50		
	H,C CH,	578.712
51		705 0004
52	OH,	725.8901
		584.6782
53		500.0407
54	H <sub>3</sub> CC CH <sub>3</sub>	538.6467
55	CH <sub>3</sub>	685.8248
	CH <sub>2</sub>	527.6695
56	H <sub>2</sub> C CH <sub>3</sub>	

Table 2		
	The state of the s	810.9557
57		
58	H <sub>2</sub> C OH N N N N N N N N N N N N N N N N N N	552.6737
59	H <sub>1</sub> C OH,	592.7391
60	H,C O N N N N N N N N N N N N N N N N N N	534.702
61	H <sub>2</sub> C Pt PtC Pt Ot	653.8232
62	H N N O O O O O O O O O O O O O O O O O	696.892
63	H <sub>1</sub> D <sub>2</sub> O <sub>3</sub> O <sub>4</sub> O <sub>4</sub> O <sub>5</sub> O <sub>6</sub> O <sub>7</sub>	606.7662
	-	

Table 2		
	Hic CH,	643.7435
64		
65		742.8771
66	H <sub>C</sub> CH <sub>1</sub> CH <sub>2</sub> CH <sub>3</sub>	747.8965
	H,C,C,CH,C,CH,C,CH,C,CH,C,CH,C,CH,C,CH	747.8965
67		704 0000
68	Hickory of the state of the sta	761.9236
69		747.8965
		733.913
70		

Table 2		
		746.9118
71		· · · · · · · · · · · · · · · · · · ·
72	H <sub>2</sub> N CH <sub>3</sub>	646.7935
	H,C CH, CH, CH, N,	746.9118
73	<sup>۲</sup> ==-۲۲	668.8782
74	H,C CH, N	
75	H <sub>3</sub> C O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N N N O N	628.8129
76	H,C ON N NH;	760.9792
77	H,C CH, H,C CH	818.0723

Table 2		
	H,C, Q, HO	761.964
	HC CH,	
78	\$ J	
		844.0702
79		
	H,C CH, ON N ON	753.9443
80		044.0700
		844.0702
81		753.9443
t	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	100.9445
82		747.0005
83	H,C CH, CH, CH, CH, CH, CH	747.8965
	H,C CH,	804.0049
84		

Table 2		
		879.2858
85		
		823.1774
86		832.0994
87	H,C CH, H,C CH, H,C CH, S	
		775.9911
88	H,C O N O OH	
	HICK OF NOT ON THE ONE OF THE ONE	725.8901
89	н, С, сн,	698.9483
90	H <sub>2</sub> C CH <sub>3</sub>	
	H <sub>3</sub> C O N O O O O O O O O O O O O O O O O O	642.84
91	1	

Table 2		
	H,C, S, N, CH, N, CH, N,	853.0995
92		
		789.9778
93	<u> </u>	900.0693
94		809.9682
	$\bigcirc$	878.8583
95		
		772.006
96		
		761.9672
97	HICK ON SHIP	
	.00	728.85
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	,
98		

Table 2		
	H <sub>2</sub> C CH <sub>2</sub> S N ON O	828.0239
99	0	789.0334
100	H,C ON N OH, CH, S S S S S S S S S S S S S S S S S S S	
	H,C, O, N, N, N, CH, N,	775.0063
101		886.1102
102	H <sub>2</sub> C NH <sub>2</sub>	
103		880.8306
104	H.C., N. CH. N.	855.0718
,07	OH CH, NATO	790.7047
105		

Table 2		
	H.C. CH, OCH, OCH, OCH, OCH, OCH, OCH, OCH,	821.0543
106		
	H.C. J. J. J. J. OH	685.7812
107		004.0070
		891.8973
108		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	775.0063
109		705.0450
110		785.0452
110		789.0334
111	H,C ON CH	
112	H,C OH,	803.0605

Table 2		
	0 CH <sub>3</sub> 5	862.4689
	H,C CH,	
113	)— он 0	
	H <sub>C</sub> CH, H <sub>C</sub> CH, N CH S S S S S S S S S S S S S S S S S S	884.1323
114	°	889.5384
115	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	609.5504
	. 0 \$0	887.1794
116	H,C, N,	
1.10		831.071
i	H,C CH, OH OH	•
117		830.0863
	H,C N,	650.0003
118		858.1405
	H,C, N, CH, N, C	000.1400
119		
119	·	

Table 2		
	H,C, N,C, OH, N,C, N,C, N,C, OH, N,C, N,C, N,C, N,C, N,C, N,C, N,C, N,	874.1399
120		
121	H <sub>1</sub> C CH <sub>1</sub> S S S S S S S S S S S S S S S S S S S	904.1227
	HC CH	929.195
122		873.0867
		070.0007
123		872.1019
424		672.1019
124		900.1561
125		
		860.11
126		
L		

Table 2		
		804.0016
127		
128		803.0169
120		831.071
129	CAN THE MC WORL	
	H,C CH, S	806.0612
130	H <sub>2</sub> C <sub>2</sub> C <sub>1</sub>	
	HC CH, S	749.9528
131		
	HC CH CH CH	748.9681
132	His Carl Market Carl	
	H,C CH, CH, S CH	777.0223
	H,C , CH, N, CH,	
133		

Table 2		
	0 N N N N O CO1,	842.1382
134		
		786.0299
135	<u> </u>	042.0004
	The state of the s	813.0994
136		920,0000
	S S CH, H,C, W C CH,	829.0988
137	$\wedge$	788.0022
. 138		
139		815.0717
.50	Hic Cai	846.1265
140		

Table 2		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	790.0181
141		
	H,C, OH, N, OH,	817.0876
142		
	HIC TO SE CHI HIC TO CHI	833.087
143		911.2017
	HC HC CH <sub>3</sub> S S	311.2317
144		931.1921
145	H,C, CH, CH, CH, CH, CH, CH, CH, CH, CH,	
146	History of the state of the sta	844.1106
140		788.0022
	H <sub>3</sub> C-C <sub>CH<sub>3</sub></sub>	
147		

Table 2		
	MC CM	815.0717
148		817.0876
	H,C CH,	
149		831.1147
	HC CT OF THE COL	031.1147
150		819.0599
		619.0099
151		833.087
152		-
		829.0988
153		845.0981
		3.3.3331
154		

Table 2		
	H,C OI,  0 N 0 N 0 N 0 N 0 N 0 N 0 N 0 N 0 N 0	816.0784
155		
450	H <sub>2</sub> C ot,  S ot,  N N N N Ot,  N OT,	773.0125
156	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	787.0396
157		850.0959
158	s; s, o,	
159		807.03
160		821.0571
	H,CCCH,	793.9876
161		······································

Table 2		
	H,C CH,  S, CH,  CH,  CH,	759.9701
162		707.0744
	HCCOH,	767.9714
163	CH	711.863
	H <sub>2</sub> CC CH <sub>4</sub>	
164		712.8506
165	H,C OH,	
		712.8506
166	H <sub>1</sub> C O N CH <sub>3</sub>	
167	H,C O N O O CH,	817.0876
168	H <sub>2</sub> C ON CH <sub>3</sub>	817.0876

Table 2		
		817.0876
	H,C 0, 00 CH,	
	CH,	
169	V Š	
		817.0876
	H,C, O, N, CH,	
	H,C P N	
	o'TNT NOS	
170		
	H,C CH, S CH,	777.0223
	H <sub>2</sub> C N CH <sub>3</sub>	
	°°°	
171		
	H,C CH, S CH,	777.0223
	HC WCH	
172		
		801.0882
	H,C, O, O, CH,	
	HCH NO N	
173		
	S CH.	919.9515
	H,C, CH,	
	но но	
174		
	g S S CH.	919.9515
	H,C, CH,	
	- H	
175		

Table 2		
		892.8821
176		
177		892.8821
177	HC CI, S S S COI, S COI	818.0723
178		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	761.964
179	CH,	789.0334
	H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> S  H <sub>2</sub> C <sub>N</sub> CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	
180	CH.	789.0334
	H <sub>2</sub> C <sub>1</sub> C <sub>1</sub> C <sub>1</sub> S <sub>2</sub> S <sub>3</sub> S <sub>3</sub> S <sub>3</sub> S <sub>3</sub> S <sub>3</sub> S <sub>4</sub> S <sub>4</sub> S <sub>4</sub> S <sub>4</sub> S <sub>5</sub> S <sub>5</sub> S <sub>6</sub>	. 55.5504
181		000 0000
	His Cat of Cat	820.0883
182		

Table 2		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	763.9799
183		
	H <sub>2</sub> C <sub>O</sub> CH <sub>3</sub>	791.0494
184		791.0494
405	HSC OH, S S OH, HSC WORL	791.0494
185	HC CH, S	791.0494
186	His of the state o	
100	Ha CH OH S	809.0674
407	H.C. N. CH, N. C	
187	,,_ Gth	809.0674
188	H <sub>1</sub> C T <sup>2</sup> CH <sub>3</sub> S CH <sub>5</sub> H <sub>2</sub> C N CH <sub>5</sub>	
55	HC CH CH S	823.0945
	H <sub>1</sub> C N CH <sub>3</sub>	
189		

Table 2		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	823.0945
190		
	H <sub>2</sub> C CH <sub>3</sub> S CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>5</sub>	865.1758
191	H,C, CH <sub>2</sub> S CH <sub>3</sub> H,C, CH <sub>4</sub> H,C, CH <sub>4</sub> H,C, CH <sub>4</sub> H,C, CH <sub>4</sub>	865.1758
192		817.0876
	H <sub>2</sub> C O N N CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> S CH <sub>3</sub>	017.0070
193	цć	817.0876
194	H,C ON N CH, CH, N ON N O	
195		1606.121
196		1606.121
<u> </u>	<u> </u>	

Table 2		
		1638.12
197	но	
198		1638.12
199	Ha CH, S CH, Ha CH,	775.0063
	H,C,CH,S,S,CH,N,CH,N,CH,N,CH,N,CH,N,CH,N	775.0063
200		
	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	763.887
201	_	707 7700
202	Ct. N. N. N. N. OH	707.7786
		734.848
203		

Table 2		
	H <sub>2</sub> C-CH <sub>3</sub>	774.9659
204		
205		800.0139
205	^	687.7971
	HO, NO	007.7971
206		714.8666
207	HC-CH,	, , , , , ,
201	GH, /	853.0774
208	H.C. D.	·
200	u., 64, -/	853.0774
209	HC COL, HC COL,	
	H,C CH, S	811.0398
	HO NO HO HO NO HO HO NO HO HO HO HO NO HO HO HO NO HO	
210		

Table 2		
	H,CCH, S,CH, M,C,CH,	811.0398
211		
. 212	HO CH,	811.0398
213	M.C. O. I. N. I. N. I. N. O. I. N. I. N	817.0876
	Hickory Chi, Chi, Chi,	817.0876
214	CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	835.1057
216	H <sub>3</sub> C CH <sub>3</sub> O N O O O O O O O O O O O O O O O O O	630.8288
217	H <sub>3</sub> C CH <sub>3</sub> O O O O O O O O O O O O O O O O O O O	616.8018

Table 2		
	H,C CH, OH, OH, OH, OH, OH, OH, OH, OH, OH, O	742.9208
218	н,с сн,	
219	H,C CH,  CH,  N  CH,  CH,	744.9367
220	H <sub>3</sub> C CH <sub>3</sub> O N O H <sub>3</sub> C CH <sub>3</sub> S	735.9694
	H,C, CH, N, CH, CH, N, CH, CH, CH, CH, CH, CH, CH, CH, CH, CH	853.0774
221	H,C,CH,S,S,S,CH,S,H,C,N,CH,S	809.0862
223	H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C	749.9965
224	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	612.7703

Table 2		
	H <sub>3</sub> C CH <sub>3</sub>	598.7432
225		i
226	H,C CH,  CH,  CH,  CH,  CH,  CH,  CH,	758.9638
227	H,C CH, N CH	684.8401
228	H,C CH <sub>3</sub> H,C CH <sub>3</sub> H,C CH <sub>3</sub> H,C CH <sub>4</sub> CH <sub>3</sub>	758.9638
229	H,C CH, N, CH, CH, CH, CH, CH, CH, CH, CH, CH, CH	758.9638
230	H,C CH, CH, S CH, N, CH, N CH,	795.0404
	H <sub>2</sub> C CH <sub>3</sub> S CH <sub>3</sub> H <sub>2</sub> C N CH <sub>3</sub>	795.0404
231		

Table 2		
	H <sub>2</sub> C CH <sub>3</sub> —CH <sub>3</sub>	624.7815
	H,C CH, N N O CH,	
	H,C Y YO	
	<u></u>	
232	н,с сн,	040.7544
	н,с сн, сн,	610.7544
	CH, N OH	
	H,C H,C	
	o n'i	
233	н,с Сн,	
233	H,C CH,	770.9749
	CH. N. N. CH.	
	H.C. N	
	۲.	
234	ң,с^сң,	
	н <sub>з</sub> с,	612.7703
	CH3 Har	
	H,C O O	·
ļ		
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
235		722.8369
	F. N. I. N. I. N. I. N.	722.6309
	H <sub>C</sub> CH <sub>3</sub>	
Ì	H,C T O CH	
1	Hic on	
236		
200	он	598.7432
	H <sub>3</sub> C O N N CH <sub>3</sub>	
	H <sub>3</sub> C Q N	
	O N	
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	
237	CH,	
	CH O CH CH S CH	795.0592
	H,C CH,	
}	o n l n l L	
200		,
238	<u> </u>	

Table 2		
239	H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	758.9638
239	HC H	839.0414
240	Control of the contro	729.8375
241	H,C CH, ON	756.0443
242	H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> OH  OH  OH  OH  OH  OH  OH  OH  OH  O	701.9518
244	H <sub>2</sub> C OH <sub>3</sub> H <sub>3</sub> C OH <sub>3</sub> H <sub>4</sub> C OH <sub>3</sub> N  N  N  N  N  S-OH <sub>3</sub>	734.0159
245	H <sub>3</sub> C CH <sub>3</sub> OH	715.9789

248  248  248  249  249  249  249  249	Table 2		
248  248  248  249  249  249  249  249		он сн,	715.9789
247  248  248  249  249  250  260  261  261  261  261  261  261  26	040		
248  248  248  249  249  250  26, 3, 4, 5, 5, 6, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	246		741 9951
248  248  249  249  250  250  261  261  261  261  261  261  261  26	247	HC CH,	
249  249  249  249  250  A <sub>1,C</sub> CH <sub>3</sub> A <sub>1,C</sub> CH <sub>3</sub> CH <sub></sub>		OLN HOWON,	821.0786
249  249  CH <sub>3</sub> H <sub>3</sub> C  CH <sub>3</sub> H <sub>3</sub> C  CH <sub>3</sub> H <sub>3</sub> C  CH <sub>3</sub>	248		
250  250  CH <sub>3</sub> H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> CH <sub></sub>		H <sub>2</sub> C O N O N O N O N O N O N O N O N O N O	020.7974
250  250  A <sub>3</sub> C  A <sub>4</sub> C	249		
251  Ac CH, Ac C	250	H <sub>3</sub> C O N O N O N O N O N O N O N O N O N O	
н,с сн, 674.842		H,C H,C CH,	698.8672
He CH'S TO ME STONE OF THE STON	201	ңс, <sup>сн</sup>	674.842
		Hich Ho	2
252 H,c CH,	252	ңс <sup></sup> сң,	

Table 2		
	H,C CH,	584.7162
	9 9	
	H <sub>2</sub> C J <sub>3</sub> N N N OH	
	H,C N OH	
253	н,с сн,	
	ОН	735.9694
	H,C 0.	
	H39	
{	H,C CH,	
	H,C CH, s	
254	CH, I s	
	O CH	772.9909
	H,C-CH,	ļ
	CH, CH	ļ
	HC ON O	
	H,C CH, CH,	
255	CH, CH,	
	o	776.9383
	N N N N CH,	
	H <sub>3</sub> C CH <sub>3</sub>	
256		
	н,с р-сн,	626.7974
	Solve	
	CH,	
	H <sub>3</sub> C N	
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
257	CH,	
	,o-{¯>	835.0189
	Q AN AN AN AN AN COH,	į
	4,c-(c4,	
258		
	o-{=>	835.0189
}		
	H,C ON CH	
	H,C CH,	
259		
	<del></del>	

Table 2		
	H <sub>3</sub> C CH <sub>3</sub> OH	612.7703
260	сн,	
	H.C. CH,	686.856
261		
	Hich Chi	686.856
262		686.856
	H <sub>2</sub> C CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub>	000.030
263		000 050
264	Hickory of Michael	686.856
264	нс 945	742.9236
265	H,C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub>	
	HCCT CH	738.9325
266		

Table 2		
	HC CH, CH, CH, CH, CH, CH, CH, CH, CH, C	738.9325
267		
	N,C C1, N C1	817.0444
268	HC COLON HC WOL	738.9325
269		
. 270	H <sub>1</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH	772.9909
271	H,C, CH <sub>3</sub> ON  N  N  N  N  N  N  N  N  N  N  N  N	795.0592
272		758.9638
	H <sub>C</sub> C CH,  OCH,  O	810.9966
273	I	

Table 2		
	CH <sub>2</sub> O-CH <sub>3</sub>	610.7544
	H,C P	
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
274	CH <sub>3</sub>	500 7070
	CH <sub>2</sub> OH	596.7273
	CH <sub>3</sub>	
	OH <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
275	CH <sub>3</sub>	756.9479
	CH, CH,	7 00.0 11 0
	CH,	,
	H,C CH, CH, CH,	
276	CH <sub>3</sub>	756.9479
	CH, CH,	
	CH,	
	H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
277	5.5	744.9799
	H <sub>2</sub> C, 0, -10 at,	
070		
278		698.8672
	CH, NO CH	
	o ch,	
279	ңс сң	
210	<b>→</b> , , , , , , , , , , , , , , , , , , ,	698.8672
	H,CH,	
	CH3	
280	н,с сн,	

Table 2		
		709.8471
	H <sub>2</sub> C H <sub>3</sub> C	
	<sup>но</sup> ćң	
281	H <sub>3</sub> C CH <sub>3</sub> CO <sub>3</sub>	598.7432
	H,C H,S N N N OH	
	OH, OH,	
282	н,с сн,	
	H,C CH <sub>3</sub>	810.9966
	H,C CH, N N N N N N N N N N N N N N N N N N N	
	O+N COH,	
222	ңс сң	
283	H,C CH, O CH	758.9638
	H.C. N. T. C. N. T. C. N. T. C. N. C	!
	, b	:
284	ңс сң	
	H,C, CH,	742.9236
	H <sub>2</sub> CO <sub>2</sub> N <sub>2</sub> N <sub>2</sub> N <sub>2</sub> N <sub>2</sub> N <sub>3</sub> N <sub>4</sub>	
	ON CH <sub>3</sub>	
295	ңс <del>С</del> ң	
285	H,C CH,	817.0444
	H,C	
	HC OH	
286	4,C Pr	817.0444
	Mc Cat	011.0444
	Mc All Market	
	,,c c,	
287	,	·

Table 2		
	O_NCH3	759.9526
	CH <sub>3</sub>	
	CH3 H3C N NO	
	H,C N	
	H,C CH, CH,	
288	CH,	
	н,с СН,	494.6367
	<u> </u>	
	H <sub>2</sub> C CH <sub>3</sub> N N NH <sub>2</sub>	
	H <sub>3</sub> C O CH <sub>3</sub>	
	HC_O	
289	н,с сн,	1
		719.9263
	, C45,	
	H <sub>2</sub> C O O OH,	
	00/10	·
}	H,C T O T N T	l
290	H <sub>2</sub> C CH <sub>3</sub> S	Į.
	H,C CH,	731.938
		į
,	CH3 N N CH3	
	H,C OH	
	CH <sub>3</sub>	
291	H <sub>3</sub> C CH <sub>3</sub>	
201		677.8887
	N- CH <sub>3</sub>	
	H,C ON ON OH	
	HO	
202	H,C CH, S	
292	H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub>	612.7703
	— <del>С</del> н,	
	CH. N. N. N. CH.	
	H <sub>c</sub>	
	O CH,	
000	H <sub>2</sub> C CH <sub>3</sub>	
293		612.7703
1	O, ,—CH,	
1	CH, N N O CH,	
	H,C CF4	
	O N CH,	
	H <sub>C</sub> CH <sub>3</sub>	
294	1 130 CM3	L

Table 2		
	H <sub>3</sub> C CH <sub>3</sub>	716.9261
1	H <sub>C</sub> C H <sub>3</sub> N	
	O'N CH,	
295	н,с сн,	}
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	717.9109
	H,C CH, M N N N N N N N N N N N N N N N N N N	
	O N CH	
222	н,с Сн,	-
296	H,C, CH,	950.0884
	a, a,	
	це оц	}
297		729.9221
	CH, N-1,	729.9221
	H,C 1 9 0 N	1
	H.C. CCH3 CCH3	
298	сн, о— си,	
	н,с сн,	578.712
	CH N N N O CH	
	H <sub>3</sub> C N N N N N N N N N N N N N N N N N N N	
	H,C O	
299	ңс <sup>о</sup> сң,	İ
	н <sub>5</sub> С <sub>У</sub> СН <sub>3</sub>	564.6849
	Anini	
	H <sub>3</sub> C H <sub>3</sub> C OH	
	O N CH2	
	н,с о н,с сн,	
300	1 · · · · · · · · · · · · · · · · · · ·	703.8838
	H <sub>2</sub> C (CH <sub>3</sub> )	
	CH3 N N N OH	
	H <sub>i</sub> C H <sub>i</sub> C CH <sub>i</sub>	
301	ңс сң	<u> </u>

302  N <sub>3</sub> C <sub>CH<sub>3</sub></sub> N <sub>3</sub> C <sub>CH<sub>3</sub></sub> N <sub>3</sub> C <sub>CH<sub>3</sub></sub> N <sub>4</sub> C <sub>CH<sub>3</sub></sub> 303  N <sub>5</sub> C <sub>CH<sub>3</sub></sub> N <sub>5</sub> C <sub>CH<sub>3</sub></sub> N <sub>6</sub> C <sub>CH<sub>3</sub></sub> N <sub>7</sub> C <sub>CH<sub>3</sub></sub> N <sub>7</sub> C <sub>CH<sub>3</sub></sub> N <sub>8</sub> C <sub></sub>	Table 2		
302 H <sub>3</sub> C CH <sub>3</sub> TO3.8838  703.8838  303 H <sub>3</sub> C CH <sub>3</sub> TO52.7173  552.7173  304 H <sub>3</sub> C CH <sub>3</sub> TO5.8838  703.8838		∑ <sup>or</sup> <sub>3</sub>	553.7021
302 H <sub>3</sub> C CH <sub>3</sub> 703.8838  303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  304 H <sub>3</sub> C CH <sub>3</sub> 523.6756		<u></u>	
302 H <sub>2</sub> C CH <sub>3</sub> 303 H <sub>2</sub> C CH <sub>3</sub> 304 H <sub>4</sub> C CH <sub>3</sub> 304 H <sub>4</sub> C CH <sub>3</sub> 305 CH <sub>3</sub> 306 CH <sub>3</sub> 307 CH <sub>3</sub> 308 CH <sub>3</sub> 309 CH <sub>3</sub>			
303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> 552.7173  304 H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> 523.6756		, j -0 )	
303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> 552.7173  304 H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> 523.6756		6	
303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> S23.6756  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> S23.6756	302		
303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> S23.6756  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> S23.6756		H <sub>3</sub> C CH <sub>3</sub>	703.8838
303  H,C CH,  H,C CH,  O, CH,	-		į
303 H <sub>3</sub> C CH <sub>3</sub> 552.7173  H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> S23.6756		CH N A A A A A A A	
304  H <sub>3</sub> C CH <sub>3</sub> O <sub>1</sub> CH <sub>3</sub> O <sub>2</sub> CH <sub>3</sub> O <sub>3</sub> CH <sub>3</sub> O <sub>4</sub> CH <sub>3</sub> O <sub>4</sub> CH <sub>3</sub> O <sub>5</sub> CH <sub>3</sub> O <sub>5</sub> CH <sub>3</sub> O <sub>6</sub> CH <sub>3</sub> O <sub>7</sub> CH <sub>3</sub>			
304  H <sub>3</sub> C CH <sub>3</sub> O <sub>1</sub> CH <sub>3</sub> O <sub>2</sub> CH <sub>3</sub> O <sub>3</sub> CH <sub>3</sub> O <sub>4</sub> CH <sub>3</sub> O <sub>4</sub> CH <sub>3</sub> O <sub>5</sub> CH <sub>3</sub> O <sub>5</sub> CH <sub>3</sub> O <sub>6</sub> CH <sub>3</sub> O <sub>7</sub> CH <sub>3</sub>			
304 H <sub>3</sub> C CH <sub>3</sub> CH	303		552 7173
304 H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> C		X-13	552.7175
304 H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> C		NH <sub>2</sub>	
304 H <sub>3</sub> C CH <sub>3</sub> 523.6756			
H <sub>3</sub> C CH <sub>3</sub> 523.6756		о сн,	
H <sub>3</sub> C CH <sub>3</sub> 523.6756	304	нс	!
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	304		523.6756
H <sub>3</sub> C H <sub>3</sub> C CH <sub>3</sub>		Å n	,
H <sub>3</sub> C TO CH <sub>3</sub>		H <sub>2</sub> C CH <sub>3</sub> N N CH <sub>3</sub>	
H <sub>3</sub> C > o		H <sub>3</sub> C	
305 H,C CH,		<u> </u>	
1 303	305	H <sub>3</sub> C CH <sub>3</sub>	
н <sub>с</sub> с сн <sub>ь</sub> 731.9783		H <sub>3</sub> C CH <sub>3</sub>	731.9783
H <sub>2</sub> C CH <sub>3</sub> N N N CH			
H'C, J, CO JH'		High To 1	
ĺ ĺ ĺ		ſ <sup>6</sup>	
306 H,C CH, 509.6485	306		500 6485
		* X	J 509.0485
CH3 N OH		CH. N N OH	
H <sub>2</sub> C H <sub>3</sub> C		H <sub>3</sub> C N N N N N N N N N N N N N N N N N N N	
O N CH <sub>3</sub>		CH <sub>3</sub>	
307 H,C CH,	207	H,C CH <sub>3</sub>	
307 H <sub>3</sub> C CH <sub>3</sub> 508.6638	307	<del></del>	508.6638
)			
H <sub>2</sub> C CH <sub>3</sub> N N NH <sub>2</sub>		H <sub>3</sub> C CH <sub>3</sub> R T T	l
H,C, Y, O		H <sub>2</sub> C Y O	Í
H <sub>2</sub> C O		1	
308 H,C CH,	308	H <sub>3</sub> C <sup>'</sup>   CH <sub>3</sub>	
H <sub>C</sub> b	308	H <sub>3</sub> C-yO	

Table 2		
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	731.9783
1		
	H,C CH, N N N N N N N N N N N N N N N N N N N	
	H <sub>2</sub> C T T T CH <sub>3</sub>	
	\	
309	н,с он,	
	H,C CH,	667.8503
İ	I I I I I I I I I I I I I I I I I I I	
}	H,C H,C N	
	cH,	
310	H <sub>3</sub> C CH <sub>3</sub>	667.8503
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	6060,700
	N L N L OH	
	H <sub>2</sub> C C C C C C C C C C C C C C C C C C C	
	ON CH3	
311	н,с сн,	
J - 011	ң <sub>с</sub> сң	567.7292
	O'T CH3	
	N N N O CH	
	o Toda	
	CH,	
312	н,ссн,	
	н <sub>у</sub> с <sub>у сну</sub>	724.9054
	Pro the property of the proper	
	H <sub>C</sub>	,
	H,C O	
	HC CH,	
313		
	H <sub>C</sub> CH <sub>3</sub>	724.9054
	H.C. H. CH.	
	H <sub>C</sub> C <sub>Y</sub>	
	4,c > 0	
	н,с` `сн,	
314	н,с, СН,	762.9736
		102.9130
	H <sub>C</sub> C N CH	
		l
315	н,с сн,	
L 010	<u> </u>	

Table 2	·	
,	H,C, CH, H,C	764.9896
316	H <sub>2</sub> C CH <sub>3</sub>	
	H,C CH,  CH,  CH,  CH,  CH,  CH,  CH,  C	764.9896
317	1	
318	H,C CH,  H,C CH,  H,C CH,  H,C CH,	764.9896
010		908.0734
319	N,COL, N,COL, N,COL, N,COL, N,COL,	
	HC CH, N CH,	724.9054
320		
321	H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	508.6638
	H <sub>2</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	522.6909
322	<u> </u>	L

Table 2		
	H³C CH³	522.6909
	O CH,	
	H <sub>2</sub> C CH <sub>3</sub> N T CH <sub>3</sub>	}
	H <sub>3</sub> C O CH <sub>3</sub>	
1 1	H <sub>3</sub> C 0	
323	On <sub>3</sub>	
{	H <sub>3</sub> C CH <sub>3</sub>	731.938
	N N N CH,	ļ
	HC CH, N CH	
	O N CH	
	н,с сн,	
324	Q, ,CH <sub>3</sub>	744.9367
	N—CH,	
	H <sub>S</sub> C ON O	
}	H <sub>3</sub> C CH <sub>3</sub> O N	
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	•
325	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
	H,C CH,	727.9102
	OH OH OH OH	
	HC CALL	
	H,C 0	Ti de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
	H,C CH,	
326		
	H <sub>3</sub> C CH <sub>3</sub>	567.7292
	N Q CH,	
	H'c CH' N	٠.
	O N CH <sub>2</sub>	
227	H <sub>2</sub> C CH <sub>3</sub>	
327	<u> </u>	

		504.0000
	S C	584.8029
	S NH2	
	O CH <sub>3</sub>	
	C	
328	н,с сн,	
	H,C X CH,	726.9214
	N CH,	
	нс то по	
	o in the case	
	н <sub>о</sub> ст	
329	,	
1	H,C , CH,	726.9214
	Hickory W. J. T. J. W. J. T. W. J. T. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W. W. J. W.	
	ON CH	
330	ңс сң	
	H,C COH,	726.9214
	Hic CH, W N N N CH,	
	N CH,	
	ļ ŗ <sup>6</sup>	
	н <sub>с</sub> ссн,	
331		740.9484
	H,C,CH,	7-10.0-10-1
	H,C CH, N N N N N N N N N N N N N N N N N N N	•
	H,C N CH,	
	_,	
	H <sub>C</sub> CH <sub>3</sub>	
332		000 0004
	N— CH,	688.8284
	H,C, CH, 0	
	H,C N N N	
	H <sub>2</sub> C CH <sub>3</sub> OH	
333	<sup>3</sup> СН <sub>3</sub> ОН	
	н,с сн,	564.6849
	N N CH <sub>3</sub>	
	H <sub>C</sub>	
	H <sub>2</sub> C   CH <sub>2</sub>	*
	H,C O	
334	н,с´сн,	

<del></del>		···
	H <sub>3</sub> C CH <sub>3</sub>	550.6578
	CH3 N OH	, :
	H <sub>3</sub> C CH <sub>2</sub>	
'	н <sub>с</sub>	
225	H <sub>3</sub> C CH <sub>3</sub>	
335	oʻ cri	820.9918
	JI-COI,	525.5516
	H <sub>2</sub> C N N	
	H,C CH, ON NO	
!	البرد لمريابية	
336	$\bigcirc$	
	H <sub>1</sub> C CH <sub>2</sub>	710.8784
	CH N N N N N CH	
	H,C	
	H <sub>2</sub> C 0	
	H,C CH,	
337		
	$\bigcirc$	746.9089
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	H,C O N N T O CH,	
338	H,C CH, CH, CH,	
	ңс <sub>С</sub> аң	710.8784
	A	
	Ho CH, W W W W W W	
	N CH,	
	H <sub>C</sub> C CH <sub>1</sub>	
000		
339		590.6823
		J90.0623
	, cu,	
'		
	N OH	
	H <sub>2</sub> N = 0	·
340	н,с сн, сн,	
	H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub>	716.9261
	H <sub>2</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	
	H,C N CH,	
	_ d	
341	н,с сн,	
	•	<u> </u>

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342	H,C Cot,	
	ocri,	772.9473
343	H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>5</sub>	
344	H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub>	731.938
	H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C CH <sub>5</sub> H <sub>4</sub> C CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>5</sub>	731.938
345		731.938
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347	H <sub>3</sub> C CH <sub>3</sub> N CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	546.7132
348	H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	606.7662

]	H³C CH³	578.712
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)	H2C 7 0	!
)	н <sub>с</sub> о сн,	
	н,с сн,	
349		
}	H³C CH³	564.7722
	N CH <sub>3</sub>	
	H <sub>3</sub> C LH <sub>3</sub> T T LCH <sub>3</sub> T	
	H <sup>2</sup> C. J. O	
	CH <sub>2</sub>	
0.50	H,C CH,	
350		548.7291
{	н,с сн,	040.1291
	N. I. N.	
}	H <sub>2</sub> C CH <sub>3</sub> N T T T	
	H <sub>2</sub> C	
	CH <sub>3</sub>	
351	H <sub>2</sub> C CH <sub>3</sub>	
001	н <sub>я</sub> с <sub>у</sub> сн <sub>я</sub>	562.7562
		002.700
	CH <sup>2</sup> N N N	
1	H <sub>3</sub> C 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
ķ	ON CH <sub>3</sub>	
l	H <sub>2</sub> CO	
352	H,C O H,C CH,	
	н,с сн,	642.8432
l		
	H,C CH, N T N T N	
	H <sub>3</sub> C Y '0	
]	H.C.	
	H,C CH,	
353		
	H <sub>3</sub> C CH <sub>3</sub>	536.718
	A P	
1	H <sub>3</sub> C CH <sub>3</sub> N N CH <sub>3</sub>	
1	H <sub>3</sub> C O	
1	o in in in in in in in in in in in in in	
	H <sub>3</sub> C OH <sub>3</sub>	
354		
	H,C CH,	574.7673
	H <sub>3</sub> C CH <sub>3</sub> N	
	н,с	
	O N CH3	
	H,C CH,	
355	UN <sub>3</sub>	

	H,C, CH, O, CH,	726.9214
356		
357	H,C CH, N CH, CH, CH, CH, CH, CH, CH, CH, CH, CH,	726.9214
	н₃с _сн₃	580.7279
358	H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> R <sub>3</sub> C CH <sub>3</sub>	
330	H,C , CH,	639.799
	H,C CH,	
359	CH	538.6902
360	H <sub>3</sub> C CH <sub>3</sub> N O CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	
361	H,C CH, N CH, N CH, CH, CH, CH, CH, CH, CH, CH, CH, CH,	562.7562
	H <sub>3</sub> C CH <sub>3</sub>	566.7444
362	H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	

Table 4

STRUCTURE	NAME iBoc-G(Chx)-P(4t-	Ki* Range A
H,C CH, CH, CH, NH,	NHiBoc)-nV-(CO)- G-G(Ph)-Am	2
HO O O O N O O N O O N O O N O O O N O O O O O O O O O O O O O O O O O O O O	(2-CO2)PhCO- G(Chx)-P(4t- MeNHCOPh(3- OPh)-nV-(CO)-G- G(Ph)-Am	A
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub>	iBoc-G(Chx)-P(4t- NHSO2Ph)-nV- (CO)-G-G(Ph)-Am	А
H <sub>1</sub> C CH <sub>3</sub> O N N CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- UreaPh)-nV-(CO)- G-G(Ph)-Am	А
H <sub>3</sub> C CH <sub>3</sub>	iBoc-G(Chx)-P(4t- MeNHCOPh)-nV- (CO)-G-G(Ph)-Am	А
H,c CH, OH, OH,	iBoc-G(Chx)-P(4t- MeNHSO2Ph)-nV- (CO)-G-G(Ph)-Am	А
H <sub>3</sub> C CH <sub>3</sub> O N O N O N O N O N O N O N O N O N O	iBoc-G(Chx)-P(4t- MeNHCOPh(3- OPh))-nV-(CO)-G- G(Ph)-Am	В

Table 4

STRUCTURE	NAME (2-CO2)PhCO- G(chx)-P(4t- UreaPh)-nV-(CO)- G-G(ph)-Am	Ki* Range C
H <sub>3</sub> C CH <sub>3</sub> O N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-(4Me)Ph)- nV(CO)-G-G(Ph)- Am	В
H <sub>2</sub> C CH <sub>2</sub> O N CH <sub>3</sub> O N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-(3Cl)Ph)- nV-(CO)-G-G(Ph)- Am	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-(4- NHAc)Ph)-nV- (CO)-G-G(Ph)-Am	A
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> O N N CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-(3,4- diCl)Ph)-nV-(CO)- G-G(Ph)-Am	В
H <sub>2</sub> C CH <sub>3</sub>	iBoc-G(Chx)-P(4t- Urea-1-Np)-nV- (CO)-G-G(Ph)-Am	В
H <sub>3</sub> C N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-2-Np)-nV- (CO)-G-G(Ph)-Am	В

STRUCTURE	NAME	Ki* Range
CI CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub>	iBoc-G(Chx)-P(4t- NHSO2-(4Cl)Ph)- nV-(CO)-G-G(Ph)- Am	В
H,c CH, O N N CH, O N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- NHSO2-5(2,3- dihydrobenzofuran ))-nV-(CO)-G- G(Ph)-Am	В
H,C CH3	iBoc-G(Chx)-P(4t- NHSO2-6(4- OMe)Courmarin)- nV-(CO)-G-G(Ph)- Am	В
H,c CH, N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- Urea-Ph(4-OMe))- nV-(CO)-G-G(Ph)- Am	А
H,C CH3 O N O N O N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- Urea-Ph(4-Cl))-nV- (CO)-G-G(Ph)-Am	В
H,C CM, O W N CH, O N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(4t- Urea-Ph(4-Cl))-nV- (CO)-G-G(Ph)-Am	С
H <sub>3</sub> C CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O	iBoc-G(Chx)-P(4t- Urea-Ph(4-Ac))- nV-(CO)-G-G(Ph)- Am	

STRUCTURE	NAME	Ki* Range
H,c CH, CH, CH, CH, CH, CH, CH, CH, CH, CH,	iBoc-G(Chx)-P(4t- Urea-Ph(4-Ac))- nV-(CO)-G-G(Ph)- Am	B
H,C CH3 O N SH3 NH2	iBoc-G(Chx)-P(4t- NHSO2-Ph(4- OMe))-nV-(CO)-G- G(Ph)-Am	В
H <sub>3</sub> C CH <sub>3</sub> O N N O NH <sub>2</sub>	iBoc-V-P(4t- NHSO2-Ph)-nV- (CO)-G-G(Ph)-Am	В
H,C CH3	iBoc-G(Chx)-P(4t- NHSO2-1Np)-nV- (CO)-G-G(Ph)-Am	В
H <sub>2</sub> C H <sub>3</sub> O N D N D N D N D N D N D N D N D N D N	iBoc-G(Chx)-P(4t- NHSO2-8- Quinoline)-nV- (CO)-G-G(Ph)-Am	В
H <sub>3</sub> O OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub></sub>	(2,5-diF-6- CO2)PhCO- G(Chx)-P(4t-NH- iBoc)-nV-(CO)-G- G(Ph)-Am	А
FOOD ON CH3	(2,5-diF-6- CO2)PhCO- G(Chx)-P(4t- NHSO2-Ph)-nV- (CO)-G-G(Ph)-Am	A

STRUCTURE	NAME	Ki* Range
CI CI CH3  N SH3  ON N SH3  NNH2	(3,4-diCl-6- CO2)PhCO- G(Chx)-P(4t-NH- iBoc)-nV-(CO)-G- G(Ph)-Am	A
OHO OHO OHO OHO	(3,4-diCl-6- CO2)PhCO- G(Chx)-P(4t- UreaPh)-nV(CO)- G-G(Ph)-Am	A
H,CC CH3	iBoc-G(Chx)-P(4t- Urea-(3-Cl)Ph)-nV- (CO)-G-G(Ph)-Am	. В
CI CI CH3	(3,4-diCl-6- CO2)PhCO- G(Chx)-P(4t- NHSO2-Ph)-nV- (CO)-G-G(Ph)-Am	A
H <sub>2</sub> C at <sub>3</sub>	iBoc-G(Chx)-P(3,4 iPr)-nV-(CO)-G- G(Ph)-OH	А
H2C NH2 NH2	iBoc-G(Chx)-P(4t- Chx)-nV-(CO)-G- G(Ph)-Am	В
HC OH OH	iBoc-G(Chx)-P(4- diMe)-nV-(CO)-G- G(Ph)-Am	А

STRUCTURE	NAME	Ki* Range
H;C CH3	iBoc-G(Chx)-P(4- Bn,4-Me)-nV-(CO)- G-G(Ph)-Am	В
HC A A A A A A A A A A A A A A A A A A A	iBoc-G(Chx)-P(4- spirocyclopentane )-nV-(CO)-G- G(Ph)-OH	A
H <sub>2</sub> C <sub>1</sub>	iBoc-G(Chx)-2- Azabicyclo[2.2.2]o ctane-3-CO-nV- (CO)-G-G(Ph)-Am	В
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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His office of the state of the	iBoc-G(Chx)-P(4,4-diMe)-nV-(CO)- G-G(Ph)-N(Me)2	A
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H <sub>3</sub> C CH <sub>3</sub> T <sub>C</sub>	iBoc-G(Chx)-P(4,4-diMe)-nV-(CO)- G-G(Ph)-OMe	А
Hich of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	iBoc-G(Chx)-P(4- spirocyclopentane )- nV-(CO)-G- G(Ph)-OMe	А
H <sub>3</sub> C CH <sub>3</sub>	iBoc-G(Chx)-P(3t- Me)-nV-(CO)- G- G(Ph)-N(Me)2	A

STRUCTURE	NAME	Ki* Range
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	iBoc-G(Chx)-P(4,4-diMe)-nV-(CO)-S(Me)-G(Ph)-OH	A
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> OH  OH  OH  OH  OH  OH  OH  OH  OH  O	iBoc-G(Chx)-P(4,4-diMe)-nV-(CO)-S-G(Ph)-OH	В
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	iBoc-G(Chx)-P(4,4-diMe)-nV-(CO)- G(Ac)-G(Ph)-OH	С
H <sub>2</sub> C <sub>N</sub> CH <sub>3</sub> OH	N-Me-G(Chx)- P(4,4-diMe)-nV- (CO)-G- G(Ph)- CO2H	С
H <sub>2</sub> C C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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H <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	iBoc-G(Chx)-P(3,4- (diMe- cyclopropyl))- G((S,S)-Me- cyclopropyl)-(CO)- G-G(Ph)-N(Me)	А
H <sub>3</sub> C <sub>CH<sub>3</sub></sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	iBoc-G(Chx)-P(6S- CEM)-nV-(CO)-G- G(Ph)-N(Me)2	А

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STRUCTURE	NAME	Ki* Range
H,C CH, N CH, CH, CH, CH, CH, CH, CH, CH, CH, CH,	iPoc-G(tBu)-P(4,4-diMe)-nV-(CO)-G-G(Ph)-N(Me)2	A
H <sub>3</sub> C <sub>CH<sub>3</sub></sub> C <sub>H<sub>3</sub></sub> C	iBoc-G(Chx)-P(6R- CEM)-nV-(CO)-G- G(Ph)-N(Me)2	A
HC CH'S CH'S CH'S CH'S CH'S CH'S CH'S CH	iBoc-G(tBu)-P(4,4- diMe)-L-(CO)-G- G(Ph)-N(Me)2	А
H,C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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H <sub>2</sub> C <sub>4</sub> -3 N N N N N N OH	iBoc-G(Chx)-P(5- c/t-Me)-nV-(CO)- G-G(Ph)-CO2H	A
	iBoc-G(Chx)-P(5- cis-Ph)-nV-(CO)- G-G(Ph)-CO2H	В
	iBoc-G(4,4- diMeChx)-P(4,4- diMe)-nV-(CO)-G- G(Ph)-N(Me)2	А

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STRUCTURE	NAME	Ki* Range
	iBoc-G(1-MeChx)- P(4,4-diMe)-nV- (CO)-G-G(Ph)- N(Me)2	A
- IN THE WIND	iBoc-G(Chx)-P(3,4-CH2)-nV-(CO)-G-G(Ph)-N(Me)2	A
H,C CH <sub>3</sub> N N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	iBoc-Chg-Pip-nV- (CO)-G-G(Ph)- N(Me)2	С
	iBoc-G(Chx)-P(4,4 diMe)-L-(CO)-G- G(Ph)-N(Me)2	А
John Jangar	iPoc-G(tBu)-P(4,4- diMe)-L-(CO)-G- G(Ph)-N(Me)2	А
	iPoc-G(tBu)-P(5- c/t-Me)-nV-(CO)- G-G(Ph)-N(Me)2	А
	((R)-1-Me-iBoc)- G(tBu)-P(4,4- diMe)-nV-(CO)-G- G(Ph)-N(Me)2	A

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STRUCTURE	NAME	Ki* Range
	(S)-1-MeiBoc- G(Chx)-P(4,4- diMe)-nV-(CO)-G- G(Ph)-N(Me)2	A
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	iBoc-G(Chx)-P(4- cis-Me)-nV-(CO)- G-G(Ph)-N(Me)2	А
	iBoc-G(tBu)-P(5- cis-Me)-nV-(CO)- G-G(Ph)-N(Me)2	
N N N N N N N N N N N N N N N N N N N	iBoc-G(Chx)-P(5- cis-Me)-nV-(CO)- G-G(Ph)-N(Me)2	A
	iBoc-G(Chx)-P(t- 3Ph)-nV-(CO)-G- G(Ph)-N(Me)2	В
	iBoc-allo(IIe)-P(4,4 diMe)-nV-(CO)-G- G(Ph)-N(Me)2	А

Table 4

	T T	
STRUCTURE	NAME	Ki* Range
	iBoc-G(Chx)-Pip(4- morpholino)-nV- (CO)-G-G(Ph)- N(Me)2	В
	iBoc-G(1-MeChx)- P[3,4-(diMe- cyclopropyl)]-nV- (CO)-G-G(Ph)- N(Me)2	A
	iBoc-G(1-MeChx)- P[3,4-(diMe- cyclopropyl)]-L- (CO)-G-G(Ph)- N(Me)2	А
	iBoc-G(tBu)-P[3,4- (diMe- cyclopropyl)]-L- (CO)-G-G(Ph)- N(Me)2	А
	iBoc-erythro-D,L- F(beta-Me)-P(4,4- diMe)- nV-(CO)-G-G(Ph)- N(Me)2	А
	((R)-1-Me)iBoc- G(1-MeChx)-P[3,4- (diMe- cyclorpropyl)]-nV- (CO)-G-G(Ph)- N(Me)2	A
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Table 4

STRUCTURE	NAME	Ki* Range
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H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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Table 5

Structure	MW	Ki* range
HC CH, HC CH, HC CH, HC CH,	507	В
	481	В
H <sub>3</sub> C CH <sub>3</sub> N H <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> N H <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	473	С
H <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	586	В
	497	С
	483	С
	481	С

Table 5

H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	479	В
H <sub>3</sub> C CH <sub>3</sub> NNH <sub>2</sub> H <sub>3</sub> C O  H <sub>3</sub> C CH <sub>3</sub>	507	Α
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> NH <sub>2</sub> O H <sub>3</sub> C CH <sub>3</sub>	521	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	612 ·	Α
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	533	A
H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> N NH <sub>2</sub> N NH <sub>2</sub> N NH <sub>2</sub>	569	А
	557	В

Table 5

	521	С
	555	A
	497	C
	569	В
HC Oh,	533	В
	.519	С
	621	В

Table 5

,		
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> NH <sub>2</sub>	392	С
H <sub>3</sub> C CH <sub>3</sub>	418	С
H <sub>G</sub> C OH,  H <sub>G</sub> C OH,  H <sub>G</sub> C OH,  H <sub>G</sub> C OH,	509	В
X	493	С
	507	В
	567	Α .
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	519	

Table 5

	519	В
H,C, CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> NH <sub>4</sub> NH <sub>4</sub> NH <sub>5</sub>	535	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub>	523	С
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	493	В
H <sub>3</sub> C CH <sub>3</sub>	547	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> NH <sub>3</sub> C <sub>4</sub> CH <sub>3</sub>	519	Α
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	505	С

Table 5

H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	494	В
H <sub>2</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>4</sub> C, CH <sub>3</sub>	480	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> O CH <sub>3</sub> O CH <sub>3</sub>	466	C
H <sub>2</sub> C <sub>2</sub> OH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> OH <sub>3</sub>	<b>493</b>	æ
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub>	505	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> CO	491	В
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	541	В

Table 5

H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> C N <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> C NH <sub>2</sub> C NH <sub>2</sub> C NH <sub>2</sub> C NH <sub>3</sub>	478	С
	555	В
	554	В
H <sub>3</sub> C CH <sub>3</sub> N H <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> N H <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	465	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N  N  NH <sub>2</sub> NH <sub>2</sub> C  NH <sub>3</sub> C  NH	520	Α
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> NN  NN  NH <sub>2</sub>	558	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N+ <sub>2</sub> C N H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub>	532	Α

Ta	h	a	5

H,C,C,CH <sub>3</sub>	547	В
H,C,CH <sub>3</sub>	547	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N NH <sub>2</sub> N NH <sub>2</sub> N NH <sub>2</sub>	553	Α
H.C. C.F.	520	В
	521	Α .
	543	С
	569	В .

H <sub>2</sub> C OH <sub>2</sub>	507	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub></sub>	522	В
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub>	606	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	493	В
H <sub>3</sub> C, CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C, CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub>	467	С
H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	507	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N NH <sub>2</sub> NH <sub>2</sub> CH <sub>3</sub>	572	Α

	718	С
	547	Α
→.º.\	666	В
	540	С
	554	В
	540	В
	632	В

	580	В
	552	Α
	592	Α
H,C, CH,S	518	Α
H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> NH <sub>3</sub> C, NH <sub>3</sub> H <sub>3</sub> C, NH <sub>3</sub> NH <sub>3</sub> C, NH <sub>3</sub> H <sub>3</sub> C, NH <sub>3</sub> NH <sub>3</sub> C, NH	506	Α
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	532	Α
	581	В

		<del></del>
	566	С
	599	В
	553	В
	568	₿
Z Y Y	566	A
	566	A
	644	A

543	С
574	Α
534 <sub>.</sub>	С
<b>549</b>	В
562	Α
662	А
563	В

H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> NH <sub>3</sub> C  NH <sub>3</sub> NH <sub>3</sub> C	518	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C N  CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C N	492	В
	533	Α
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>4</sub> C  H <sub>5</sub> C  H	510	C .
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C N  H <sub>3</sub> C N  NH <sub>2</sub> C N  NH <sub>2</sub> C N  NH <sub>3</sub> C N  N	504	A
H <sub>3</sub> C CH <sub>3</sub>	530	В
H,C, CH <sub>3</sub>	516	В

	574	В
	561	В
	533	В
	493	C
	546	Α .
	561	A
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	505	В

H <sub>2</sub> C CH <sub>2</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	490	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> O N H <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> O N H <sub>2</sub> O CH <sub>3</sub>	539	С
	532	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> C <sub>3</sub> CH <sub>3</sub>	561	Α
	573	Α
	567	Α
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	581	А

608	А
587	В
561	В
581	А
573	А
624	Α
547	А

	583	Α
	545	В
	, 609	С
	549 <sup>-</sup>	С
	575	С
CI XCI N N N N N N N N N N N N N N N N N N N	613	A
	573	Α

561	А
625	Α
666	С
588	Α
599	Α
573	А
587	Α

	615	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	535	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C  NH <sub>2</sub> C	561	Α
Hoy CH <sub>3</sub> NO CH <sub>3</sub> NO CH <sub>3</sub>	531	A
	651	А
	506	Α
X, X, X, X, X, X, X, X, X, X, X, X, X, X	520	A

Table 5

	546	А
	602	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> NH <sub>2</sub> C <sub>4</sub> CH <sub>3</sub> NH <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> NH <sub>3</sub> C <sub>4</sub> CH <sub>3</sub>	549	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	587	Α
H <sub>2</sub> C CH <sub>2</sub> H <sub>2</sub> C CH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>2</sub> NH <sub>3</sub> C CH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub>	561	Α
	517	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C ON ON ON ON ON ON ON ON ON ON ON ON ON	491	В

Table 5

H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> OH <sub>3</sub>	533	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub>	507	Α
	598	Α
	535	Α
	561	Α
	633	Α
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	497	С

607	А
574	В
518	В
580	С
544	В
562	А
561	А

	587	А
H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> O NH <sub>2</sub>	533	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	559	Α
H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> NH <sub>2</sub> C  NH <sub>3</sub> C  CH <sub>3</sub>	557	С
	535	Α
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C	535	В
	547	A

	546	А
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	546	В
H,C, CH, NH, CH, CH, NH, CH, CH, CH, CH, CH, CH, CH, CH, CH, C	523	В .
H <sub>2</sub> G CH,  N H <sub>2</sub> G CH,  N H <sub>2</sub> G CH,  H <sub>2</sub> G CH,  H <sub>3</sub> G CH,  H <sub>3</sub> G CH,	663	С
H <sub>3</sub> C CH,  H <sub>3</sub> C CH,  H <sub>3</sub> C CH,  H <sub>3</sub> C CH,	637	С
H <sub>3</sub> C, CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	521	В
H <sub>3</sub> C CH <sub>3</sub>	573	В

H <sub>3</sub> C CH <sub>3</sub>	559	Α
H <sub>3</sub> C CH <sub>3</sub> NNH <sub>3</sub> NNH <sub>3</sub> NNH <sub>3</sub> NNH <sub>3</sub>	533	A
H <sub>3</sub> C CH <sub>3</sub> N H <sub>2</sub> O N H <sub>2</sub>	573	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub>	595	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub>	575	Α
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	560	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	534	С

Structure	MW	Ki* Range
	727	А
	727	Α
TO NATIONAL DE LA CONTRACTIONAL DE LA CONTRACT	753	С
HC CH'S CH'S CH'S CH'S CH'S CH'S CH'S CH	753	В
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	713	A

	713	А
	732	А
	733	А
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	733	Α
	767	В
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	715	С
797	715	А
	699	В

	725	А
H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	781	В
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729	Α .
729	А
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<sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	719	А
	773	Α
H,C CH, O CH	727	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	727	Α
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	727	А

	787	А
	809	С
	709	Α
X	769	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub>	723	С
H, C, CH, CH, CH, CH, CH, CH, CH, CH, CH	713	A
	723	А

	723	В
	771	С
	741	A
H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub>C</sub> C, CH <sub>3</sub> H <sub></sub>	725	Α
	745	Α
	716	Α
	733	A

<del></del>	<u></u>	<del></del>
HC OIL	713	А
	753	Α
HC CH,  AC CH,	726	Α
	712	A
HC ON,	771	В
HC CHI,	804	Α
M.E. OH.  ME. OH.  ME. OH.  ME. OH.	726	А

Table 5

HC ON PH ON	746	Α
HC OH, OH, OH,	752	Α
HC OH,	741	А
HCCH3  HC	727	Α
HCCCH3  HCCCH3	699	Α
H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C, CH <sub>3</sub> H, C,	739	А
1, 2, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	712	А

Table 5

HG OH, HG OH, HG OH, HG OH,	698	А
	757	В
	790	Α
MC OH, OH, OH, OH, OH, OH, OH, OH, OH, OH,	712	A
He Cott,  Ott,  Ott,  Ott,  Ott,  Ott,  Ott,	732	А
H.C. C.	738	А
Br. Br N N N N N N N N N N N N	869	. А

	785	А
X Y Y Y Y Y	785	Α
	785	Α
	785	Α
X i di di	781	Α
> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	780	А
H <sub>2</sub> C, CH <sub>2</sub>	697	С

H <sub>2</sub> C <sub>2</sub> OH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> OH <sub>3</sub> H <sub>4</sub> C <sub>2</sub> OH <sub>3</sub> H <sub>4</sub> C <sub>2</sub> OH <sub>3</sub>	671	С
	780	Α
	884	Α
H, C, CH, S	855	Α
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> O N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> O CH <sub>2</sub>	757	В
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> C	741	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N C	779	В

	725	А
	787	Α
	785	Α
X I I I I I I I I I I I I I I I I I I I	737	Α
X Lini	737	А
**************************************	739	А
X	855	А

X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	826	Α
	857	Α
	826	Α
7	765	A
X	792	А
	799	А
	784	Α

Table 5

HC OI	750	А
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N C	771	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	771	A

Structure	MW	Ki* range
H,C CH,  M,C CH,  M,C CH,  M,C CH,	536	С
H.C. OH.	508	В
H <sub>3</sub> C CH <sub>3</sub> N  O  O  O  O  H <sub>3</sub> C  O  O  O  O  H <sub>3</sub> C  O  O  O  O  O  O  O  O  O  O  O  O  O	601	С
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> O O O O O O O O O O O O O O O O O O O	587	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  O  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH	494	С
X 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	512	С
X , , , , , , , , , , , , , , , , , , ,	538	С

X	538	С
7	522	С
	496	<b>C</b>
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> CH	522	С
70,700	540	С
X	598	C
H <sub>3</sub> C CH <sub>3</sub> OH  OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C OH  H <sub>3</sub> C	480	С

H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> OH  OH  H <sub>3</sub> C CH <sub>3</sub> OH  OH  OH  OH  OH  OH  OH  OH  OH  O	508	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub>	548	С
H <sub>3</sub> C CH <sub>3</sub>	534	В
H <sub>2</sub> C <sub>CH<sub>2</sub></sub>	584	С
H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	570	В
	558	С
HICH OH,	433	С

H <sub>3</sub> C CH <sub>3</sub>	407	С
H <sub>3</sub> C CH <sub>3</sub>	393	С
H <sub>3</sub> C CH <sub>3</sub>	433	С
H <sub>3</sub> C CH <sub>3</sub>	419	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	534	С
H <sub>3</sub> C CH <sub>3</sub> N O O O O O O O O O O O O O O O O O O	520	В
X X X X X X X X X X X X X X X X X X X	534	С

		· · · · · · · · · · · · · · · · · · ·
X X X X X X X X X X X X X X X X X X X	520	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	550	O <sub>.</sub>
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> OH <sub>3</sub> C CH <sub>3</sub>	536	C
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	538	С
	568	В
	582	С
	570	С

	584	C
H <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O	418	С
H.C. CH, M.C. CH, M.C. CH, M.C. CH, CH, CH, CH, CH, CH, CH, CH, CH, CH,	554	С
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	508	С
H <sub>3</sub> C <sub>C</sub> H <sub>3</sub> OH  OH  H <sub>3</sub> C <sub>C</sub> H <sub>3</sub> OH  OH	494	В
H <sub>3</sub> C CH <sub>3</sub>	562	С
H <sub>3</sub> C CH <sub>3</sub>	548	<b>A</b>

H <sub>3</sub> C CH <sub>3</sub> O N N CH <sub>3</sub> O CH <sub>3</sub>	520	С
H <sub>3</sub> C CH <sub>3</sub>	506	С
HC CH, HC CH, HC CH,	540	<b>C</b>
H <sub>3</sub> C CH <sub>3</sub>	562	С
H <sub>3</sub> C CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	548	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C	480	С
H <sub>3</sub> C CH <sub>3</sub> O N O O O O O O O O O O O O O O O O O	466	С

H <sub>3</sub> C CH <sub>3</sub>	568	С
H <sub>3</sub> C CH <sub>3</sub>	554	В
H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> O  N  CH <sub>3</sub> O  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C	508	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub>	482	С
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub></sub>	496	С
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	522	С
	535	С

Structure	MW	Ki range
	539	В
H <sub>2</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub></sub>	563	В
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  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	561	C
HC HC HC HC HC HC HC HC HC HC HC HC HC H	567	С
HC HC HC HC HC HC HC HC HC HC HC HC HC H	581	С
+	495	С

	654	В
H <sub>2</sub> C <sub>C</sub> CH <sub>2</sub> H <sub>3</sub> C  N  CH <sub>3</sub> N  CH <sub>4</sub> N  CH <sub>5</sub> N  CH <sub>5</sub> CH <sub>5</sub> CH <sub>7</sub> CH <sub>7</sub>	549	C
HC HC HC HC HC HC HC HC HC HC HC HC HC H	567	С
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	581	С
X X X X X X X X X X X X X X X X X X X	654	С
HC CH,  HC NH  HC CH,  HC CH,	626	В
X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	654	А

	535	С
	535	В
7°7°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	523	С
X X X X X X X X X X X X X X X X X X X	523	С
H,C OH,	561	В
>-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	511	С
77,70	537	С

	654	В
X	654	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	626	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N  N  OH <sub>3</sub> OH <sub>3</sub> H <sub>3</sub> C  OH <sub>3</sub>	652	В
H <sub>1</sub> C A <sub>1</sub> H <sub>2</sub> C A <sub>1</sub> H <sub>3</sub> C A <sub>1</sub> H <sub>4</sub> C A <sub>1</sub> H <sub>5</sub> C A <sub>1</sub>	525	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub></sub>	539	С
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	641	В
X	630	С
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X X X X X X X X X X X X X X X X X X X	653	В
	553	С
	655	С
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	539	С
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	521	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	547	С
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X	644	С
7°	587	С
	654	В
	716	В

	668	В
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700000000000000000000000000000000000000	563	С

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H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	563	В

		<u> </u>
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> C <sub>3</sub> CH <sub>2</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C	547	В
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H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>4</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>4</sub>	640	В
	546	В .
	646	В
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	594	С
H,C, CH <sub>3</sub> H,C, CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> H,C  H,C  H,C  H,C  H,C  H,C  H,C  H,	592	В

H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub>	533	C
	545	С
	<b>659</b>	В
	609	Α
X	635	В
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×	519	С

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	621	В
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub>	521	В
H,C, CH,  H,C CH,  H,C CH,	547	В
H,C, OH,	573	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> F  H <sub>3</sub> C  N  N  CH <sub>4</sub> H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H <sub>3</sub> C  H 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	547	В
X N N N N N Br	719	В

	····	
X N N N N N N N N N N N N N N N N N N N	719	С
X X X X X X X X X X X X X X X X X X X	653	В
	597	В
X_{	697	A
	619	В
X° N°	651	С
	592	В

H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N CH <sub>2</sub> H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H <sub>3</sub> C H 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H <sub>2</sub> C <sub>2</sub> C <sub>3</sub>	589	С
X	621	С
	519	С
	597	В
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H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	521	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>4</sub> C OH <sub>3</sub> H <sub>4</sub> C OH <sub>3</sub> H <sub>4</sub> C OH <sub>3</sub>	519	С
X, X, Y, X,	689	С
X, X, X, X, X, X, X, X, X, X, X, X, X, X	611	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	600	С
	595	В

H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub> O CH <sub>3</sub>	541	С
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	549	В
X	593	С
	680	В
X. S.	559	С
	559	С
	573	В

+	644	C
	537	O
X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	627	С
	609	В
X X X X X X X X X X X X X X X X X X X	664	В
X X X X X X X X X X X X X X X X X X X	650	С
X X X X X X X X X X X X X X X X X X X	661	В

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	571	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	661	В
X	607	В
	625	С
H <sub>3</sub> C CH <sub>3</sub>	575	В
H <sub>3</sub> C CH <sub>3</sub>	575	В
H <sub>3</sub> C CH <sub>3</sub> O O O O O O O O O O O O O O O O O O O	575	В

H,C CH,  N CH,  N CH,  N CH,	575	В
H,C CH,	559	В
H <sub>3</sub> C <sub>2</sub> C <sub>H</sub> <sub>3</sub>	573	В
H <sub>2</sub> C CH <sub>3</sub> N CH <sub>2</sub> CH <sub>3</sub> H <sub>4</sub> C CH <sub>2</sub>	637	В
	473	С
	559	В
H <sub>2</sub> C <sub>O</sub> Cd <sub>3</sub> H <sub>2</sub> C <sub>O</sub> Cd <sub>3</sub> H <sub>2</sub> C <sub>O</sub> Cd <sub>3</sub> H <sub>2</sub> C <sub>O</sub> Cd <sub>3</sub> H <sub>2</sub> C <sub>O</sub> Cd <sub>3</sub>	549	С

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		······································
	587	С
	547	С
	547	В
	573	С
X X	573	С
7	607	С
	595	В

	581	В
	609	В
	629	С
	694	С
	605	С
X, , , , , , , , , , , , , , , , , , ,	579	C
	627	С

H <sub>2</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	563	С
	571	С
X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	572	В
	551	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	609	С
	593	В
	593	С

	613	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	593	В
	581	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	571	В
H <sub>3</sub> C CH <sub>3</sub> O CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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H <sub>2</sub> C CH <sub>3</sub>	615	С
H.C. CH <sub>3</sub> H.C. CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	571	С

H <sub>3</sub> C <sub>C</sub> H <sub>3</sub>	571	C
H <sub>3</sub> C OH <sub>3</sub>	545	С
H <sub>2</sub> C CH <sub>3</sub>	633	С
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>7</sub>	585	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N OH <sub>2</sub> H <sub>3</sub> C OH <sub>3</sub>	587.	В
H,C, CH <sub>3</sub> N  N  OH <sub>2</sub> H,C  OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub>	647	В
HC CH	512	С

H <sub>2</sub> C <sub>2</sub> C <sub>1</sub>	575	С
	658	С
	621	С
	565	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	572	Α
Ht al	587	А
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>3</sub>	587	В

F CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	509	С
H <sub>2</sub> C CH <sub>3</sub> OH <sub>3</sub> N OH <sub>2</sub> H <sub>2</sub> C OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub>	533	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub>	587	В
	644	С
	594	В
Stringt Contract	695	В
H,C, CH <sub>2</sub>	650	В

H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	600	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub>	628	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	556	В
H C CH,	674	В
HC CH,  HC CH,  HC CH,  HC CH,  HC CH,	579	С
HC ON ON ON ON ON ON ON ON ON ON ON ON ON	637	С
HE CH,	671	C

Table 5

	583	C
H <sub>2</sub> C <sub>2</sub> CH <sub>2</sub>	587	В
X	601	В.
H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, CH,3 H,C, C	623	В
Hich or a state of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac	621	Α
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	645	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>2</sub> CH <sub>2</sub>	664	В

H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>4</sub> H <sub>2</sub> C <sub>3</sub> CH <sub>4</sub>	573	C
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	559	C
\$\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\frac{\pi_{\text{c}}}{\pi_{\text{c}}}\pi_	847	В
H <sub>3</sub> C <sub>C</sub> CH <sub>1</sub> N  CH <sub>2</sub> CH <sub>2</sub>	651	В
	547	C
	561	В
	561	В

<del></del>		<del></del>
	546	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	545	С
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	633	В
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	681	Ç
X	561	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	598	В
X1, Y,	583	C

	567	С
	539	С
	519	С
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub>	708	В
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	649	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> H <sub>3</sub> C  H <sub>3</sub> C  CH <sub>3</sub>	561	В
H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	461	C

531	С
606	A
606	Α
592	Α
666	С
626	В
640	В

	654	В
H <sub>2</sub> C <sub>2</sub> CH <sub>2</sub>	698	В
	654	В
	758	С
H <sub>3</sub> C CH <sub>3</sub> N N CH <sub>2</sub> N CH <sub>3</sub> CH <sub>3</sub>	638	Α
**************************************	683	В
	593	А

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	621	Α
	607	В
	627	В
H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	586	Α
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C CH <sub>5</sub>	534	В
H,C,CH <sub>3</sub> H,C,CH <sub>3</sub> H,C,CH <sub>3</sub> H,C,CH <sub>3</sub>	560	С
	621	А

H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	616	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	572	Α
H <sub>3</sub> C <sub>2</sub> OH <sub>3</sub> N OH <sub>3</sub> N OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub>	547	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> C CH <sub>3</sub>	561	-C
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> H <sub>3</sub> CH	521	С
	620	В
	578	В

H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> N H <sub>3</sub> C <sub>4</sub> N CH <sub>2</sub> CH <sub>3</sub>	560	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	620	Α
	618	В
	632	В
	662	В
	592	В`
	590	В

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	690	. В
	609	В
	749	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>2</sub>	648	A
	783	В
H.F. CH <sub>3</sub> N  OH <sub>2</sub> OH <sub>2</sub> N  OH <sub>2</sub> N  OH <sub>2</sub> N  OH <sub>2</sub> N  OH <sub>2</sub> N  OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>2</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>4</sub>	783	В
	634	С

	648	С
	634	С
X X X X X X X X X X X X X X X X X X X	649	С
7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	629	С
	657	С
X N N N N N N N N N N N N N N N N N N N	614	А
Br Br N N N N N N N N N N N N N N N N N	702	В

BY Br	702	Α
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N  N  CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub>	675	В
H <sub>3</sub> C <sub>2</sub> Cd <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C	647	В
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> CH <sub>2</sub>	568	C,
H,C, CH, N, OH N, OH N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N, CH, N,	· 619	С
	482	С
HE OS OS OS OS OS OS OS OS OS OS OS OS OS	576	С

	617	В
	651	С
HE OS OS OS OS OS OS OS OS OS OS OS OS OS	637	С
	684	В
	685	В
	698	В
	605	В

620 <sub>.</sub>	В
672	С
620	В
594	B
606	В
580	С
532	В

	572	В
	738	А
	718	В
X	664	В
CI ZCI	614	В
	624	В
	558	В

	633	В
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub>	770	С
H <sub>3</sub> CC N N CH <sub>2</sub> O N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	535	С
H <sub>3</sub> C N CH <sub>2</sub>	533	С
No on on on one of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	677	С
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub> CH <sub>3</sub>	563	В
H,C, CH <sub>3</sub> N, CH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub>	651	A

H.C. CH <sub>3</sub> H.C. CH <sub>3</sub> H.C. N  H.C. OH <sub>3</sub> H.C. N  H.C. OH <sub>3</sub>	634	А
	706	С
#\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	757	Α
	662	Α
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> O H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> O H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub>	660	Α
CI CI CI CI CI CI CI CI CI CI CI CI CI C	648	А
CI CI N N N N N N N N N N N N N N N N N N N	648	С

	668	В
	618	Α
	660	В
7,1,4,~	601	В
	673	В
X X X X X X X X X X X X X X X X X X X	662	А
	602	A

H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub>	681	A
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,	681	С
H,C, CH, N,	655	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>4</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>4</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>5</sub> C <sub>3</sub> CH <sub>3</sub>	689	В
H,C,CH,3  CH,3  CH	660	Α
	538	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub>	764	А

Hyc CH <sub>2</sub> CH <sub>2</sub>	816	С
H,C, CH,  N,C, CH,  N,C, CH,  N,C, CH,	780	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N CH <sub>2</sub> CH <sub>2</sub>	560	С
X	602	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub>	625	В
H.C.CH <sub>3</sub> H.C.CH <sub>3</sub> H.C.CH <sub>3</sub> H.C.CH <sub>3</sub>	685	В
	587	A

587	Α
601	Α
625	В
601	A
627	В
679	А
628	А

J. i.li.	587	A
	641	A
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> CH <sub>2</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub>	659	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> C	674	Α
X° N°	615	В
X N N N N N N N N N N N N N N N N N N N	641	В
X° N°	641	В

Table 5

		<del></del>
	627	Α
	665	Α
	614	Α
He car	737	В
#;c, or ,	666	<b>A</b>
H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C CH'  H'C	660	Α
Zirir~	591	С

X° N°	615	С
H,C, CH, N, C, C	754	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub>	577	С
H,C, CH,  N, C	694	Α
	702	Α
X I I I I I I I I I I I I I I I I I I I	701	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  CH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub>	546	В

H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C CH <sub>3</sub>	520	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> N N CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	546	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	723	В
H <sub>2</sub> CH <sub>3</sub> H <sub>2</sub> CH <sub>3</sub> H <sub>4</sub> CH <sub>3</sub> H <sub>4</sub> CH <sub>3</sub> H <sub>4</sub> CH <sub>3</sub>	675	Á
	771	В
1,5° C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21,1 C 21	847	С
A. A. A. A. A. A. A. A. A. A. A. A. A. A	641	Α

	613	А
	651	С
	. 700	Α
	569	Α
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> N  N  H <sub>2</sub> C  OH  H <sub>3</sub> C  OH  H <sub>3</sub> C  OH  H <sub>3</sub> C  OH  N	756	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	786	А
	669	В

	601	А
	601	В
	683	А
X, , , , , , , , , , , , , , , , , , ,	673	Α
H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> H <sub></sub>	680	А
	602	A
X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	735	Α

	743	Α
	655	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N  N  CH <sub>2</sub> CH <sub>2</sub> H <sub>3</sub> C  N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> N  CH <sub>2</sub> CH <sub>2</sub> N  CH <sub>2</sub> CH <sub>2</sub> N  CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	692	A
H,C,CH <sub>2</sub> H,C,CH <sub>3</sub> H,C,CH <sub>3</sub> H,C,CH <sub>3</sub>	639	А
H,C N H,C N H,C OH,	639	Α
X	675	A
	621	А

	668	А
	642	А
	654	А
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub></sub>	601	С
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	663	В
	641	А
X	702	A

	_	
X	701	Α
	588	В
	638	Α
	630	Α
X, , , , , , , , , , , , , , , , , , ,	697	A
	621	A
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	608	В

	682	Α
H <sub>3</sub> C, CH <sub>3</sub> N  N  N  N  N  CH <sub>2</sub> H <sub>3</sub> C  CH <sub>3</sub> H <sub>3</sub> C  CH <sub>3</sub>	667	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	520	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> CH <sub>2</sub>	645	В
H.C. CH,  H.C. CH,  H.C. CH,  H.C. CH,  H.C. CH,  H.C. CH,	669	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> N <sub>4</sub> C <sub>4</sub> CH <sub>3</sub>	575	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub>	709	В

Table 5
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H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> OCH <sub>2</sub> OCH <sub>3</sub> OCH <sub>2</sub> OCH <sub>3</sub>	652	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N	714	Α
HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC CH, HC	561	В
HC CH, N CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,  HG CH,	561	, B
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	685	В

Table5

able5		
Structure	MW	Ki* Range
H <sub>3</sub> C CH <sub>3</sub> H CH <sub>3</sub> CH <sub>3</sub>	580	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	606	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H 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CH <sub>3</sub>		,

TABLE 6		
STRUCTURE	MW .	Ki* (nM)
H <sub>3</sub> C CH <sub>3</sub> N O N O N N O N N N N N N N N N N N N	666.87	A
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> H <sub>4</sub> C <sub>4</sub> C <sub>1</sub> CH <sub>3</sub> H <sub>5</sub> C <sub>4</sub> C <sub>1</sub> C <sub>1</sub> CH <sub>3</sub> H <sub>5</sub> C <sub>4</sub> C <sub>1</sub>	723.92	Α
H <sub>1</sub> C CH <sub>3</sub> H <sub>1</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	778.88	А
CA COH,	627.61	A
H <sub>3</sub> C CH <sub>3</sub>	601.58	ВВ
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub>	652.84	4 A

	707.00	
H,C CH, N N N N N N N N N N N N N N N N N N N	707.80	A
H <sub>3</sub> C CH <sub>3</sub> N N N CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> N N CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	574.65	В
H <sub>3</sub> C, CH <sub>3</sub> H <sub>3</sub> C, CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	624.71	В
H,C CH, N N N N N N N N N N N N N N N N N N N	694.88	A
H <sub>2</sub> C CH <sub>1</sub> N N N N N N N N N N N N N N N N N N N	693.89	В
H <sub>3</sub> C OH <sub>3</sub> P F F F P P P P P P P P P P P P P P P	792.90	А
H <sub>2</sub> C CH <sub>3</sub> O N CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub>	584.76	

H <sub>3</sub> C CH <sub>3</sub> N O N CH <sub>2</sub> CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	583.78	A
H <sub>2</sub> C CH <sub>2</sub> N CH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	585.79	A
H <sub>3</sub> C CH <sub>3</sub> OH <sub></sub>	643.87	A
H,C, CH,  N, CH,  CH,  CH,	574.72	В
H <sub>2</sub> C <sub>2</sub> CH <sub>1</sub> N CH <sub>2</sub> O N CH <sub>2</sub>	574.72	В
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N	693.89	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  N  N  N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> C	826.92	А

H <sub>1</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	766.87	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	561.77	В
9 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	587.55	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	709.95	A
H,C, CH,  N, CH,  N, CH,  H,C, CH,  H,C, CH,  H,C, CH,	695.93	В
H <sub>2</sub> C CH <sub>3</sub> O N CH <sub>3</sub> N <sub>3</sub> C CH <sub>3</sub>	644.82	В
H,C, CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub>	572.75	А

H,C CH,  H,C CH,  H,C CH,	752.96	A
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	752.96	А
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub>	752.96	Α
H <sub>2</sub> C CH <sub>3</sub> N  N  N  CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	695.91	C
H <sub>2</sub> C COH <sub>3</sub> N OH <sub>3</sub> N OH <sub>3</sub> N OH <sub>3</sub> N OH <sub>3</sub>	695.91	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> P  N  N  N  N  CH <sub>3</sub> N  CH <sub>3</sub> H <sub>4</sub> C  H <sub>5</sub> C  CH <sub>3</sub>	786.92	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H 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<sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C	710.88	A

н,с сн,	599.70	Α
H <sub>1</sub> C CH <sub>3</sub>		
H <sub>1</sub> C CH <sub>2</sub> H <sub>2</sub> C CH <sub>3</sub> N  N  CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	573.66	В
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, C	694.92	В
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	658.85	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	596.77	В
H,C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> NH <sub>4</sub> NH <sub>4</sub> NH <sub>5</sub>	576.74	В
H,C CH,  N,C	750.94	А

H,C CH,  ON CH,  H,C CH,	600.81	В
H <sub>2</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub>	600.81	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  O  O  O  O  O  O  O  O  O  O  O  O	584.81	В
2	611.83	A
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	600.81	В
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub>	532.69	В
HCCH3 NH2	599.56	А

H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	681.88	A
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,	645.85	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	653.89	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> N  CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>7</sub>	673.88	А
H <sub>2</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>4</sub> H <sub>4</sub> C CH <sub>4</sub> H <sub>4</sub> C CH <sub>4</sub> H <sub>5</sub> C CH <sub>4</sub> H <sub>5</sub> C CH <sub>5</sub>	652.84	А
H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	693.91	A
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>7</sub> C	729.94	A .

H,C CH <sub>3</sub> H,C CH <sub>3</sub> H,C N CH <sub>3</sub> H,C N CH <sub>3</sub>	667.87	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N	696.89	A
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>4</sub> CH  H <sub>3</sub> C CH <sub>3</sub> CH  H <sub>3</sub> C CH <sub>3</sub>	584.76	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	658.85	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> O <sub>1</sub> O <sub>1</sub> O <sub>2</sub> O <sub>3</sub> O <sub>4</sub> O <sub>5</sub> O <sub>6</sub> O <sub>7</sub> O <sub>8</sub>	695.91	В
H <sub>2</sub> C CH <sub>3</sub> OH <sub></sub>	681.88	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub>	611.81	В

H,C CH,	000 07	
H,C CH,  H,C CH,  H,C CH,	682.87	A
H,C,CH,	688.89	А
H,C, CH,  N, C	695.86	В
CH, N N N N N N N N N N N N N N N N N N N	601.58	В
H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub>	674.84	A
H <sub>3</sub> C CH <sub>3</sub> N N N N O CH <sub>3</sub> CH <sub>2</sub> N N O CH <sub>3</sub>	645.85	В .
H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	695.91	Α

H.C. CH,  CH,  CH,  CH,  CH,  CH,  CH,  CH,	709.89	A
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, C	749.96	A
H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C CH,  H,C	764.85	Α
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>5</sub> CH <sub>5</sub> CH <sub>6</sub> CH <sub>7</sub> CH <sub>7</sub> CH <sub>7</sub> CH <sub>8</sub> CH <sub>8</sub> CH <sub>8</sub> CH <sub>8</sub> CH <sub>8</sub> CH <sub>9</sub> C	804.92	Α
CH, CH, N OH,	591.54	A
H,C,CH,S	708.69	С
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C	736.74	С

U.C. CH	727.05	
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C CH <sub>4</sub> H <sub>5</sub> C CH <sub>5</sub>	737.95	
CH <sub>3</sub>	596.82	В
H <sub>2</sub> C CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> H <sub>3</sub> C  CH <sub>3</sub>	547.74	В
H,C CH,	762.78	С
H <sub>2</sub> C <sub>2</sub> C <sub>3</sub> C <sub>4</sub>	734.73	A
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	585.79	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C	694.66	A

<u> </u>		
H,C, CH,  H,C, CH,  N  N  N  N  N  N  N  N  N  N  N  N  N	681.88	
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	681.88	В
H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N CH <sub>3</sub> N	680.90	В
H,C CH,	722.93	С
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, C	752.96	Α
H <sub>3</sub> C CH <sub>3</sub> N N N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>4</sub> N N N CH <sub>3</sub> CH <sub>3</sub> H <sub>3</sub> C CH <sub>4</sub>	752.96	A
H <sub>2</sub> C CH <sub>3</sub> N <sub>4</sub> C CH <sub>3</sub> N <sub>7</sub> C	752.96	A

H,C, CH, CH, CH, CH, CH, CH, CH, CH, CH,	779.00	A
H,C, CH, OH, OH, OH, OH, OH, OH, OH, OH, OH, O	779.00	А
H <sub>i</sub> C CH <sub>i</sub>	779.00	A
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N N N CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	613.73	С
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N <sub>1</sub> C <sub>2</sub> CH <sub>3</sub> N <sub>2</sub> C <sub>3</sub> CH <sub>3</sub> N <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C <sub>4</sub> C	668.68	А
H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH,5 H,C,CH	673.90	B
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	629.85	В

H,C CH,	733.74	В
H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C, CH, H,C	655.84	В
H,C CH, N CH <sub>5</sub> H,C CH <sub>7</sub> H,C C	655.84	В
H,C CH <sub>3</sub> H,C CH <sub>3</sub> H,C CH <sub>4</sub> H,C CH <sub>3</sub> H,C CH <sub>4</sub> H,C CH <sub>4</sub> H,C CH <sub>4</sub> H,C CH <sub>5</sub> H,C CH <sub>4</sub> H,C CH <sub>5</sub>	669.87	В
H,C F F	641.52	В
H <sub>2</sub> C CH <sub>3</sub> N N S O N S O N N S O N N N N N N N N N	687.91	A
H <sub>2</sub> C <sub>F</sub> F	615.48	A

	C45 401	
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH 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<sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	615.48	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub> O  H <sub>3</sub> C N  H <sub>3</sub> C CH <sub>3</sub>	694.92	В
H <sub>1</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	707.70	A
H,C CH,  H,C CH,  H,C CH,	694.92	A
Hic of h	805.81	А
O N N N N N N N N N N N N N N N N N N N	625.60	А
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>2</sub>	640.87	В

H <sub>2</sub> C <sub>C</sub> CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	695.91	A
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	614.71	В
H <sub>3</sub> C CH <sub>3</sub> O N O N O N O N O O O O O O O O O O O	617.84	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	631.86	С
H,C OH,	665.84	A
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	702.94	С
H,C CH, N N N N N N N N N N N N N N N N N N N	765.74	А

H <sub>C</sub> CH <sub>3</sub> H <sub>C</sub> CH <sub>3</sub> H <sub>C</sub> CH <sub>4</sub> H <sub>C</sub> CH <sub>4</sub> H <sub>C</sub> CH <sub>4</sub> H <sub>C</sub> CH <sub>4</sub> H <sub>C</sub> CH <sub>5</sub>	667.85	С
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  CH <sub>2</sub> N  CH <sub>3</sub> N  CH <sub>2</sub> H <sub>3</sub> C  H <sub>3</sub> C  CH <sub>3</sub>	648.73	A
H,C, CH, N N SSO N N N SSO N N N N N N N N N N N	680.91	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	696.96	C
	804.82	A
H <sub>3</sub> C CH <sub>3</sub> N N CH <sub>2</sub> N <sub>3</sub> C CH <sub>3</sub>	606.77	В
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	676.86	А

HC CH,	811.00	A
H <sub>3</sub> C, CH <sub>3</sub> N  N  N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	806.93	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	737.95	Α
H <sub>3</sub> C CH <sub>3</sub> N N CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	628.74	В
H <sub>3</sub> C CH <sub>3</sub> O N CH <sub>3</sub> N S=0  H <sub>3</sub> C CH <sub>3</sub>	701.93	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  N  N  CH <sub>3</sub> H <sub>3</sub> C  N  H <sub>3</sub> C  N  CH <sub>3</sub>	579.75	В
H,C,CH <sub>3</sub> N,CH <sub>3</sub> H,C,CH <sub>3</sub> H,C,CH <sub>3</sub>	622.69	В

H <sub>2</sub> C CH <sub>3</sub>	720.70	Α
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	720.96	A
0 H <sub>2</sub> C CH <sub>3</sub>	748.75	А
H,C OH,	681.88	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>4</sub> CH <sub>5</sub> CH <sub>2</sub> H <sub>3</sub> C  H <sub>3</sub> C  CH <sub>2</sub>	681.88	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  H <sub>3</sub> C CH <sub>3</sub>	594.76	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N  N  CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>5</sub>	. 634.70	А

H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	764.76	
H <sub>1</sub> C O H <sub>2</sub> C O H <sub>2</sub> C O F F	601.46	A
H,C CH,  H,C CH,  H,C CH,  H,C CH,	673.88	A
H <sub>C</sub> C CH <sub>s</sub> H <sub>C</sub> C CH <sub>s</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	769.95	В
H,C CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH,  N, CH	769.95	A
H <sub>C</sub> CH <sub>3</sub> ON  NH <sub>4</sub> NH <sub>5</sub> NH <sub>5</sub> NH <sub>6</sub>	551.69	В
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,	674.86	В

H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	709.93	
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	683.90	В
H <sub>3</sub> C CH <sub>3</sub> N P O H <sub>3</sub> C N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	642.87	В
H,C CH,	680.90	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	722.72	А
H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	737.73	В
H <sub>3</sub> C CH <sub>3</sub> O H <sub>3</sub> C CH <sub>3</sub> O H <sub>3</sub> C CH <sub>3</sub> O H <sub>3</sub> C CH <sub>3</sub> O H <sub>3</sub> C CH <sub>3</sub>	647.82	В

<u> </u>		
H,C CH,  N S CH,  N,C CH,  N,C CH,  N,C CH,	700.90	A
H <sub>C</sub> C CH, CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH	818.94	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>4</sub> CH <sub>3</sub> N+1  H <sub>3</sub> C  H <sub></sub>	574.65	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C NH <sub>3</sub> C NH <sub>3</sub> C	600.68	А
H,C CH,	699.92	В
H <sub>2</sub> C × CH <sub>3</sub> H <sub>3</sub> C × CH <sub>3</sub>	776.81	В .
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	635.85	А

H <sub>3</sub> C CH <sub>3</sub> N  N  CH  N  N  N  N  N  N  N  N  N  N  N  N  N	705.90	А
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub>	608.66	Α
H <sub>3</sub> C CH <sub>3</sub> N  N  CH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	647.74	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub> N  OH  OH  OH  OH  OH  OH  OH  OH  OH	641.86	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  OH  OH  OH  OH  OH  OH  OH  OH  OH	643.83	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> NH <sub>2</sub> O N  H <sub>3</sub> C CH <sub>3</sub>	560.74	В
H,C, CH,  CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N CH,  N	779.00	A

H <sub>3</sub> C CH <sub>3</sub> OH  OH  CH <sub>3</sub> CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub> OH  CH <sub>3</sub>	664.85	A
H <sub>1</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	819.71	A
H <sub>2</sub> C CH <sub>3</sub>	719.72	А
H <sub>2</sub> C CH <sub>3</sub>	622.77	- А
H,C CH,  N N N N CH,  N CH,  N CH,	787.00	А
H <sub>2</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	787.00	Α
H <sub>3</sub> C CH <sub>3</sub> O N  NH <sub>3</sub> C NH <sub>3</sub> H <sub>3</sub> C OH <sub>3</sub>	559.76	A

CI CI NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	621.57	A
H <sub>2</sub> C CH <sub>3</sub> N N N N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	822.93	А
H <sub>3</sub> C CH <sub>3</sub> N  CH  CH  CH  CH  CH  CH  CH  CH  CH	631.82	A

STRUCTURE	MW	Ki* (nM)
Hic Car	567.74	В
HC. N	567.74	A
THICK THE THE THE THE THE THE THE THE THE THE	620.58	А
H <sub>3</sub> C CH <sub>3</sub> N N N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> CH <sub>4</sub>	702.90	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub></sub>	740.91	A
H <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C OH <sub>3</sub> NH <sub>3</sub> C OH <sub>3</sub> NH <sub>3</sub> C OH <sub>3</sub>	522.65	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C N  H <sub>3</sub> C N  H <sub>3</sub> C CH <sub>3</sub>	521.66	В

H <sub>3</sub> C N	598.53	В
H <sub>1</sub> C OH <sub>2</sub> NH <sub>2</sub> H <sub>3</sub> C N	572.49	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  N  N  CH <sub>3</sub> N  CH <sub>3</sub> N  CH <sub>3</sub>	638.81	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	520.68	С
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	520.68	В
H <sub>C</sub> C CH	631.56	В
H <sub>3</sub> C O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> , O <sub>H</sub> ,	605.52	В

H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub>	571.77	
H,C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub>	558.47	A
H,C CH, NH2 H,C CH, NH2	591.49	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	780.89	А
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub></sub>	779.91	Α
H,C CH <sub>3</sub> NH <sub>2</sub> H,C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C N  CH <sub>3</sub>	491.64	В
H <sub>1</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	546.71	В

H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	834.94	A
H <sub>2</sub> C A <sub>1</sub>	779.99	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> N <sub>4</sub> C <sub>3</sub> CH <sub>3</sub>	652.84	A
H,C CH, N N N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH,	723.92	A
H <sub>2</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> N NH <sub>2</sub> N NH <sub>2</sub> N NH <sub>2</sub>	545.73	A
H <sub>2</sub> C <sub>2</sub> CH <sub>2</sub> N N N N N N N N N N N N N N N N N N N	572.75	A
H <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C H <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	546.71	A

a a	676.60	В
N L NHs	0.0.00	
HC TO		
H <sub>C</sub> N	1	
orto o		
ңс		
	644.60	В
Hc N		
ңс <sup>о</sup>		
н,с <sub>у</sub> сн,	559.76	Α
NH <sub>3</sub>		
H <sub>C</sub> C A A A A A A A A A A A A A A A A A A		
0 1 1		i
CH <sub>3</sub>		
н <sub>С</sub> , сң	695.79	A
	333.73	
H,C CH, W N N N N		
H,C N CH,	!	
н <sub>с</sub> о н <sub>с</sub> - F	r r	
F F		
H <sub>3</sub> C CH <sub>3</sub>	654.86	Α
H,c CH, N TI TI TI TI		Ì
O NH CH <sub>3</sub>		
H <sub>3</sub> C NH H <sub>3</sub> C CH <sub>3</sub>		
a a	618.56	В
HC CH N N N N N N N N N N N N N N N N N		
H <sub>c</sub> h		
Ho N		l
що		
a a	592.53	В
N NH		
CH, N		Ì
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H,C , N		
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H <sub>2</sub> C N H <sub>4</sub> C OH	602.56	
H <sub>3</sub> C CH <sub>3</sub> N  N  N  CH <sub>3</sub> N  CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  CH <sub>3</sub>	709.89	A
H <sub>2</sub> C CH <sub>3</sub> Pr  Pr  N  N  N  CH <sub>3</sub> H <sub>4</sub> C  H <sub>4</sub> C  CH <sub>3</sub>	859.87	A
H <sub>2</sub> C N N N N N N N N N N N N N N N N N N N	630.57	A
H,C CH, NH,C	604.54	A
H,C CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH, N CH	807.05	A
H,C CH,  H,C CH,  H,C CH,  CH,  CH,  CH,	807.05	

H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	542.63	
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub>	554.64	A
H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	620.68	A
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O CH <sub>3</sub>	656.61	В
H <sub>G</sub> C OH,	779.00	Α
H <sub>3</sub> C COH <sub>3</sub>	560.74	В

H <sub>2</sub> C ON NH <sub>2</sub>	630.57	
H,C NH <sub>2</sub>	616.55	В
H,C CH, CH, CH, CH, CH, CH, CH, CH, CH,	646.62	Α
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	545.61	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>5</sub> NH <sub>5</sub> NH <sub>5</sub> NH <sub>5</sub> NH <sub>5</sub>	571.65	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub>	519.69	А
H <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	519.69	В

H <sub>3</sub> C CH <sub>3</sub> O N F F  H <sub>3</sub> C CH <sub>3</sub> OH	575.63	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  N  N  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	687.91	В
H,C CH,  H,C CH,  H,C CH,  H,C CH,	714.93	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub></sub>	559.63	А
H <sub>3</sub> C CH <sub>3</sub>	672.66	A
Ho Ho CH <sub>3</sub> Ho CH <sub>3</sub> Ho CH <sub>4</sub> Ho CH <sub>4</sub> Ho CH <sub>4</sub> Ho CH <sub>4</sub> Ho CH <sub>5</sub> Ho	604.58	В
H,C CH,  N,C	795.00	A

<del></del>		
H <sub>2</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	555.72	
HC OH3	581.76	Α
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	545.73	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> OH  CH <sub>3</sub> CH <sub>3</sub>	571.67	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> O N F CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	544.65	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> P  P  CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	570.68	В
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub>3</sub> C CH <sub>3</sub>	543.66	В

H,C CH, N N N N N N N N N N N N N N N N N N N	634.56	В
H <sub>2</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	569.75	A
HO CH <sub>3</sub>	630.62	В
H,C CH, NH, NH, NH, NH, NH, NH, NH, NH, NH, N	561.51	С
H <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub>	561.51	A
H <sub>3</sub> C CH <sub>3</sub>	585.79	
H <sub>2</sub> C CH <sub>2</sub> NH <sub>2</sub> C CH <sub>2</sub> NH <sub>3</sub> C NN  NNH <sub>2</sub> NNH <sub>2</sub>	559.76	A

H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>3</sub> C CH <sub>3</sub>	523.65	A
H,C CH <sub>3</sub> NO NO NO NO NO NO NO NO NO NO NO NO NO N	573.78	A
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N	549.69	A
H <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C N  H <sub>3</sub> C N  H <sub>3</sub> C F	537.68	A
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H,C CH, N N N N N N N N N N N N N N N N N N N	692.91	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N  N  N  N  N  N  N  N  N  N  N  N  N	670.83	A
H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,  H,C, CH,	547.74	A
H <sub>3</sub> C OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub>3</sub> OH <sub></sub>	796.89	Α
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HC CH,	618.61	A

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H <sub>3</sub> C CH <sub>3</sub> NH <sub>4</sub> NH <sub>4</sub> NH <sub>4</sub> NH <sub>5</sub> NH <sub></sub>	503.65	
H <sub>C</sub> CH <sub>S</sub> H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  H <sub>C</sub> CH <sub>S</sub> NH <sub>S</sub> C  NH <sub>S</sub> C  H <sub>C</sub> C  NH <sub>S</sub> C	559.63	A
HC CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH S NH; HC H, CH	573.66	A
HC CH, NO NO NO NO NO NO NO NO NO NO NO NO NO	739.92	А
H <sub>1</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub>	807.05	A
H,C CH,  N  N  CH,  CH,  N  CH,  CH,  CH,  C	821.95	A

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4,6,04,	821.95	Α
N N N N OH	İ	
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H <sub>C</sub> N		
H <sub>C</sub> CH <sub>3</sub>		
F <sub>V</sub> F	528.60	В
CH N NH <sub>2</sub>		
H <sub>1</sub> C H <sub>2</sub> O O O		į
H,C T		į
H <sub>4</sub> C O	ļ	
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<b>4</b> 0 ССЧ,	577.77	В
CH N NH	,	
HC HC		
H <sub>2</sub> C <sub>2</sub> O <sub>1</sub> N		
मुठ देवमु		
	705.04	
H,C CH,	795.91	Α
J. N. I. N. I. N.		
H,C N, N II OH,		
OTN FFF		
H,C N H,C OA,		
H <sub>3</sub> C /CH <sub>3</sub>	788.94	A
N P N P N P N P N P N P N P N P N P N P	1	
н,с сн,		
H <sub>2</sub> C CH <sub>3</sub>		
H,C, CH <sub>3</sub>	761.92	A
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H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub>		
H,C Y CH,		
H <sub>2</sub> C N		
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ңе оң, 9	795.00	A
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H3C OH		
<sup>н,с</sup> сн,		

H,C CH,  N,C	760.96	А
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	514.07	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	809.02	А
H <sub>2</sub> C CH <sub>3</sub>	732.83	A
H <sub>3</sub> C CH <sub>3</sub>	513.59	В
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> CH <sub>3</sub>	527.62	В
F, F H <sub>2</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	731.85	Α

uc cH	E44 G4	
H <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub> NH <sub>4</sub> NH <sub>4</sub> H <sub>3</sub> C CH <sub>3</sub>	541,64	А
H <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> NH <sub>4</sub> NH <sub>4</sub> CH <sub>3</sub> NH <sub>4</sub>	530.62	В
H <sub>2</sub> C <sub>2</sub> CH <sub>3</sub> H <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	529.63	В
H <sub>2</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	738.93	A
H <sub>1</sub> C CH <sub>3</sub> H <sub>1</sub> C CH <sub>3</sub> H <sub>1</sub> C CH <sub>3</sub> H <sub>1</sub> C CH <sub>3</sub> H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C	764.01	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	737.95	A
H <sub>3</sub> C CH <sub>3</sub>	764.97	А

	F40 741	
H,C CH,	546.71	В
H <sub>3</sub> C CH <sub>3</sub>	532.69	В
H <sub>2</sub> C CH <sub>3</sub>	764.97	<b>A</b>
H <sub>3</sub> C CH <sub>3</sub>	750.94	А
H,C OH,	800.95	A
H <sub>1</sub> C O <sub>H<sub>3</sub></sub>	800.95	A
H <sub>1</sub> C O <sub>H<sub>3</sub></sub>	786.92	A

H <sub>3</sub> C CH <sub>3</sub>	582.69	В
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	556.66	В
H <sub>1</sub> C CH <sub>3</sub> N N F F F F F F F F F F F F F F F F F	566.60	В
H <sub>3</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	748.88	Ā
H,C CH,  H,C CH,  H,C CH,	804.94	A
H,C OH,	810.89	Α

H <sub>3</sub> C CH <sub>3</sub>	774.91	A
H,C CH,	788.94	A
H <sub>2</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	766.94	A
H,C CH,	808.04	A
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	537.68	В
H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub>	546.71	В
H <sub>2</sub> C CH <sub>3</sub> N N N CH <sub>3</sub> CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	748.88	В

н,с сн,	556.66	В
H <sub>2</sub> C H <sub>3</sub> C F		
H <sub>1</sub> C CH <sub>1</sub> H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>4</sub> H <sub>3</sub> C CH <sub>4</sub>	764.97	В
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>4</sub> H <sub>3</sub> C CH <sub>4</sub>	764.97	Α
M <sub>3</sub> C CH <sub>3</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>2</sub> NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub> C  NH <sub>3</sub>	595.74	B .
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N <sub>3</sub> C <sub>3</sub> CH <sub>3</sub> N <sub>4</sub> C <sub>3</sub> CH <sub>3</sub> N <sub>5</sub> C <sub>4</sub> CH <sub>3</sub> NH <sub>2</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub>	569.70	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	750.94	A
H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub> H <sub>i</sub> C CH <sub>i</sub>	774.91	A

H <sub>C</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	766.99	А
H,C OH,	752.96	A
H <sub>1</sub> C CH <sub>3</sub> N N N N N N CH <sub>3</sub> CH <sub>4</sub> C CH <sub>3</sub> CH <sub>4</sub> C CH <sub>3</sub>		(
H <sub>2</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>4</sub> C CH <sub>3</sub> H <sub>5</sub> C CH <sub>5</sub> H <sub>5</sub> C	776.93	A
H,C CH <sub>3</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub> CH <sub>5</sub>	861.10	A
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> NNH <sub>4</sub> NNH <sub>4</sub>	589.74	A
H,C CH,  N CH,  CH,	763.99	A
H <sub>1</sub> C CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> CH 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H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	577.75	A
H <sub>2</sub> C CH <sub>3</sub> N <sub>2</sub> C CH <sub>3</sub> N <sub>3</sub> C CH <sub>3</sub> N <sub>4</sub> C CH <sub>3</sub>	838.07	Α
MCCM,	642.80	В
H <sub>3</sub> C CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	518.66	В
HC CH N N N N CH	796.97	А
MSC OILS NN NH,	653.87	В
H <sub>1</sub> CH <sub>2</sub> N N N N N N N N N N N N N N N N N N N	624.61	А

H,C,CH,N,N,N,N,N,N,N,N,N,N,N,N,N,N,N,N,N	638.64	
	664.68	A
H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub> N CH <sub>3</sub>	760.89	А
H <sub>3</sub> C CH <sub>3</sub> N N N CH <sub>3</sub> CH <sub>3</sub> N CH <sub>3</sub> H <sub>4</sub> C CH <sub>4</sub>	786.92	
H <sub>3</sub> C <sub>C</sub> CH <sub>3</sub> N <sub>1</sub> C <sub>C</sub> CH <sub>3</sub>	542.63	Α
H <sub>2</sub> C CH <sub>3</sub> NH <sub>2</sub> H <sub>3</sub> C CH <sub>3</sub> CH <sub>4</sub> CH <sub>4</sub>	568.67	А
H <sub>3</sub> C <sub>2</sub> CH <sub>3</sub> N N N N N N N N N N N N N N N N N N N	607.75	А

H <sub>3</sub> C CH <sub>3</sub> N NH <sub>2</sub> H <sub>3</sub> C N NH <sub>2</sub>	581.71	A
H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> N CH <sub>3</sub>	759.90	А
H <sub>3</sub> C CH <sub>3</sub> O N  H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub> H <sub>3</sub> C CH <sub>3</sub>	756.90	Α
H <sub>2</sub> C CH <sub>3</sub>	795.00	А
CF <sub>3</sub> NH <sub>2</sub>	571.63	A

## Claims

What is claimed is:

1. A compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound having the general structure shown in Formula I:

$$\mathbb{R}^4$$
 $\mathbb{R}^4$ 
 $\mathbb{R}^3$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^4$ 
 $\mathbb{R}^4$ 

Formula I

wherein:

Y is selected from the group consisting of alkyl, alkyl-aryl, heteroalkyl, heteroaryl, aryl-heteroaryl, alkyl-heteroaryl, cycloalkyl, alkyloxy, alkyl-aryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, alkylamino, arylamino, alkyl-arylamino, arylamino, heteroarylamino, cycloalkylamino and heterocycloalkylamino, with the proviso that Y maybe optionally substituted with X<sup>11</sup> or X<sup>12</sup>:

X<sup>11</sup> is alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkyl, heterocyclyl, heterocyclylalkyl, aryl, alkylaryl, arylalkyl, heteroaryl, alkylheteroaryl, or heteroarylalkyl, with the proviso that X<sup>11</sup> may be additionally optionally substituted with X<sup>12</sup>;

X<sup>12</sup> is hydroxy, alkoxy, aryloxy, thio, alkylthio, arylthio, amino, alkylamino, arylamino, alkylsulfonyl, arylsulfonyl, alkylsulfonamido, arylsulfonamido, carboxy, carbalkoxy, carboxamido, alkoxycarbonylamino, alkoxycarbonyloxy, alkylureido, arylureido, halogen, cyano, or nitro, with the proviso that said alkyl, alkoxy, and

aryl may be additionally optionally substituted with moieties independently selected from X<sup>12</sup>;

 $R^{1}$  is  $-C(O)R^{5}$ ;

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R<sup>5</sup> is H, -OH, -C(O)OR<sup>8</sup>, -C(O)NR<sup>9</sup>R<sup>10</sup>;

Z is selected from O, N, C(H) or C(R);

W maybe present or absent, and if W is present, W is selected from C(=O), C(=S), C(=N-CN), or  $S(O_2)$ ;

Q maybe present or absent, and when Q is present, Q is C(H), N, P,  $(CH_2)_p$ ,  $(CHR)_p$ ,  $(CRR')_p$ , O, NR, S, or  $SO_2$ ; and when Q is absent, M may be present or absent; when Q and M are absent, A is directly linked to L;

A is O,  $CH_2$ ,  $(CHR)_D$ ,  $(CHR-CHR')_D$ ,  $(CRR')_D$ , N(R), S,  $S(O_2)$  or a bond;

E is CH, N, CR, or a double bond towards A, L or G;

G may be present or absent, and when G is present, G is  $(CH_2)_p$ ,  $(CHR)_p$ , or  $(CRR')_p$ ; and when G is absent, J is present and E is directly connected to the carbon atom in Formula I as G is linked to;

J maybe present or absent, and when J is present, J is  $(CH_2)_p$ ,  $(CHR)_p$ , or  $(CRR')_p$ ,  $S(O_2)$ , N(H), N(R) or O; and when J is absent, G is present and E is directly linked to N shown in Formula I as linked to J;

L may be present or absent, and when L is present, L is C(H), C(R), O, S or N(R); and when L is absent, then M may be present or absent; and if M is present with L being absent, then M is directly and independently linked to E, and J is directly and independently linked to E;

M may be present or absent, and when M is present, M is O, NR, S, S(O<sub>2</sub>),  $(CH_2)_p$ ,  $(CHR)_p$   $(CHR-CHR')_p$ , or  $(CRR')_p$ ;

p is a number from 0 to 6; and

R, R', R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> can be the same or different and are independently selected from the group consisting of H;  $C_1$ - $C_{10}$  alkyl;  $C_2$ - $C_{10}$  alkenyl;  $C_3$ - $C_8$  cycloalkyl;  $C_3$ - $C_8$  heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halogen;

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(cycloalkyl)alkyl and (heterocycloalkyl)alkyl, wherein said cycloalkyl is made of three to eight carbon atoms, and zero to six oxygen, nitrogen, sulfur, or phosphorus atoms, and said alkyl is of one to six carbon atoms; aryl; heteroaryl; alkyl-aryl; and alkyl-heteroaryl;

- wherein said alkyl, heteroalkyl, alkenyl, heteroalkenyl, aryl, heteroaryl, cycloalkyl and heterocycloalkyl moieties may be optionally and chemically-suitably substituted, with said term "substituted" referring to optional and chemically-suitable substitution with one or more moieties selected from the group consisting of alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, heterocyclic, halogen, hydroxy,
- thio, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, sulfonamido, sulfoxide, sulfone, sulfonyl urea, hydrazide, and hydroxamate;
  - further wherein said unit N-C-G-E-L-J-N in Formula I represents either a five-membered cyclic ring structure or a six-membered cyclic ring structure with the proviso that when said unit N-C-G-E-L-J-N represents a five-membered cyclic ring structure, or when the bicyclic ring structure in Formula I comprising N, C, G, E, L, J, N, A, Q, and M represents a five-membered cyclic ring structure, then said five-membered cyclic ring structure lacks a carbonyl group as part of the cyclic ring.
  - 2. The compound of claim 1, wherein  $R^1$  is  $-C(O)C(O)NR^9R^{10}$ ;  $R^9$  is H;

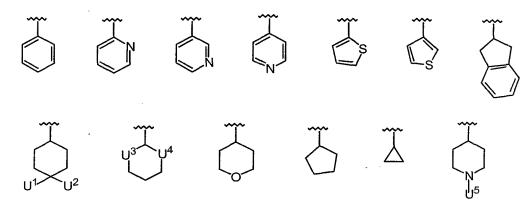
$$\begin{split} R^{10} \text{ is H, -R}^{14}, -[CH(R^{1'})]_pC(O)OR^{11}, -[CH(R^{1'})]_pC(O)NR^{12}R^{13}, \\ -[CH(R^{1'})]_pS(O_2)R^{11}, -[CH(R^{1'})]_pS(O_2)NR^{12}R^{13}, -[CH(R^{1'})]_pC(O)R^{11}, \\ -CH(R^{1'})C(O)N(H)C(H)(R^{2'})C(O)OR^{11}, -CH(R^{1'})C(O)N(H)CH(R^{2'})CONR^{12}R^{13}, \text{ or } \\ -CH(R^{1'})C(O)N(H)CH(R^{2'})(R'), \text{ wherein } R^{14} \text{ is H, alkyl, aryl, heteroalkyl, heteroaryl,} \end{split}$$

cycloalkyl, alkyl-aryl, alkyl-heteroaryl, aryl-alkyl, alkenyl, alkynyl or heteroaralkyl. 3. The compound of claim 2, wherein  $R^{10}$  is H,  $-R^{14}$ ,  $-CH(R^{1'})C(O)OR^{11}$ ,  $-CH(R^{1'})CH(R^{1'})C(O)OR^{11}$ ,  $-CH(R^{1'})CH(R^{1'})C(O)OR^{12}R^{13}$ ,  $-CH(R^{1'})CH(R^{1'})C(O)OR^{12}R^{13}$ ,  $-CH(R^{1'})CH(R^{1'})C(O)R^{11}$ ,  $-CH(R^{1'})CH(R^{1'})C(O)OR^{11}$ ,  $-CH(R^{1'})C(O)OR^{11}$ ,  $-CH(R^{1'})C$ 

- -CH(R<sup>1'</sup>)C(O)N(H)CH(R<sup>2'</sup>)(R'), wherein R<sup>1'</sup> is H or alkyl, and R<sup>2'</sup> is phenyl, substituted phenyl, hetero atom-substituted phenyl, thiophenyl, cycloalkyl, piperidyl or pyridyl.
- 4. The compound of claim 3, wherein R<sup>1</sup> is H.
- 5 5. The compound of claim 4, wherein R<sup>11</sup> is H, methyl, ethyl, allyl, tert-butyl, benzyl, α-methylbenzyl, α,α-dimethylbenzyl, 1-methylcyclopropyl or 1-methylcyclopentyl;

R' is hydroxymethyl or -CH<sub>2</sub>C(O)NR<sup>12</sup>R<sup>13</sup>;

 $R^{2'}$  is independently selected from the group consisting of:



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wherein:

U<sup>1</sup> and U<sup>2</sup> maybe same or different and are selected from H, F, -CH<sub>2</sub>C(O)OH, -CH<sub>2</sub>C(O)OMe, -CH<sub>2</sub>C(O)NH<sub>2</sub>, -CH<sub>2</sub>C(O)NHMe, -CH<sub>2</sub>C(O)NMe<sub>2</sub>, azido, amino, hydroxyl, substituted amino, substituted hydroxyl;

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U<sup>3</sup> and U<sup>4</sup> maybe same or different and are selected from O and S;

20

U<sup>5</sup> is selected from the group consisting of alkyl sulfonyl, aryl sulfonyl, heteroalkyl sulfonyl, heteroaryl sulfonyl, alkyl carbonyl, aryl carbonyl, heteroaryl carbonyl, alkoxycarbonyl, aryloxycarbonyl, heteroaryloxycarbonyl, alkylaminocarbonyl,

arylaminocarbonyl, heteroarylaminocarbonyl or a combination thereof;

and NR<sup>12</sup>R<sup>13</sup> is selected from the group consisting of:

5

wherein U<sup>6</sup> is H, OH, or CH₂OH, and

- R<sup>14</sup> is selected from the group consisting of: H, Me, Et, *n*-propyl, methoxy, cyclopropyl, *n*-butyl, 1-but-3-ynyl, benzyl, α-methylbenzyl, phenethyl, allyl, 1-but-3-enyl, OMe and cyclopropylmethyl.
- 10 6. The compound of claim 5, wherein R<sup>3</sup> is selected from the group consisting of:

wherein  $R^{51} = H$ , COCH<sub>3</sub>, COOtBu or CONHtBu;

$$H_3$$
C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ C $H_3$ 

wherein  $R^{31} = OH$  or O-alkyl;

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Y<sup>19</sup> is selected from the following moieties:

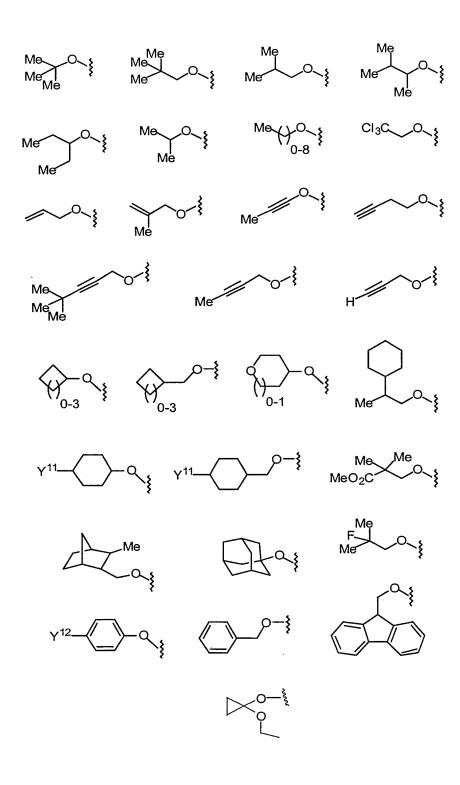
and  $Y^{20}$  is selected from the following moieties:

7. The compound of claim 6, wherein R<sup>3</sup> is:

- 8. The compound of claim 6, wherein Z is N and  $R^4$  is H.
- 9. The compound of claim 8, wherein W is C=O.

WO 03/062265

10. The compound of claim 9, wherein Y is selected from the following moieties:



$$(A_{1-3})_{r}$$

$$(A_{1-3})_{r}$$

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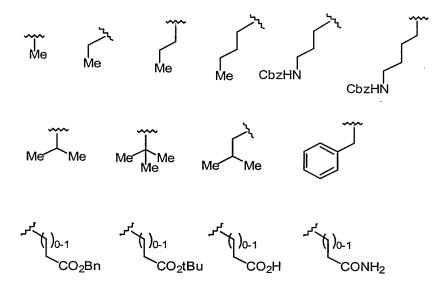
## wherein:

 $Y^{11}$  is selected from the group consisting of H, -C(O)OH, -C(O)OEt, -OMe, -Ph, -

OPh, -NHMe, -NHAc, -NHPh, -CH(Me)<sub>2</sub>, 1-triazolyl, 1-imidazolyl, and NHCH<sub>2</sub>COOH;

Y<sup>12</sup> is selected from the group consisting of H, -C(O)OH, -C(O)OMe, -OMe, F, Cl, and Br;

Y<sup>13</sup> is selected from the group consisting of the following moieties:



Y<sup>14</sup> is MeS(O<sub>2</sub>)-, -Ac, -Boc, -iBoc, -Cbz, or -Alloc;

 $Y^{15}$  and  $Y^{16}$  can be the same or different and are independently selected from

alkyl, aryl, heteroalkyl, and heteroaryl;

 $Y^{17}$  is  $-CF_3$ ,  $-NO_2$ ,  $-C(O)NH_2$ , -OH,  $-C(O)OCH_3$ ,  $-OCH_3$ ,  $-OC_6H_5$ ,  $-C_6H_5$ ,  $-C(O)C_6H_5$ ,  $-NH_2$ , or -C(O)OH; and

 $Y^{18}$  is  $-C(O)OCH_3$ ,  $-NO_2$ ,  $-N(CH_3)_2$ , F,  $-OCH_3$ ,  $-C(H_2)C(O)OH$ , -C(O)OH,  $-S(O_2)NH_2$ , or  $-N(H)C(O)CH_3$ .

10 11. The compound of claim 10, wherein Y is selected from the group consisting of:

wherein:  $Y^{17} = CF_3, NO_2, CONH_2, OH, NH_2, or COOH;$   $Y^{18} = F, COOH,$ 

12. The compound of claim 11, wherein Y is selected from the group consisting of:

- 13. The compound of claim 12, wherein L and M are absent, and J is directly linked to E.
  - 14. The compound of claim 12, wherein L, J and M are absent and E is directly linked to N.
  - 15. The compound of claim 12, wherein G and M are absent.

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16. The compound of claim 12, wherein the moiety:

is 
$$\mathbb{R}^{\mathbb{R}^{'}}$$

17. The compound of claim 16, wherein structure  $\underline{a}$  is selected from the following structures:

18. The compound of claim 16, wherein structure <u>a</u> is:

٠5

wherein  $R^{20}$  is selected from the following structures:

19. The compound of claim 16, wherein structure <u>a</u> is:

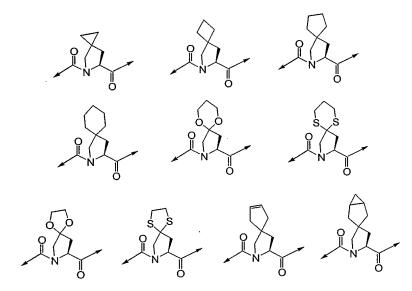
wherein R<sup>21</sup> and R<sup>22</sup> may be the same or different and are independently selected from the group consisting of the following structures:

20. The compound of claim 16, wherein structure  $\underline{a}$  is selected from the group consisting of the following structures:

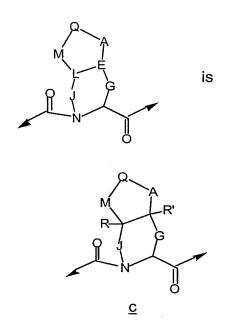
21. The compound of claim 12, wherein:

wherein Q may be present or absent, and if Q is absent, M is directly linked to A.

22. The compound of claim 21, wherein structure  $\underline{b}$  is selected from the following structures:



23. The compound of claim 12, wherein:

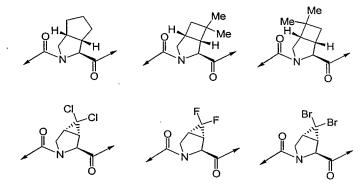


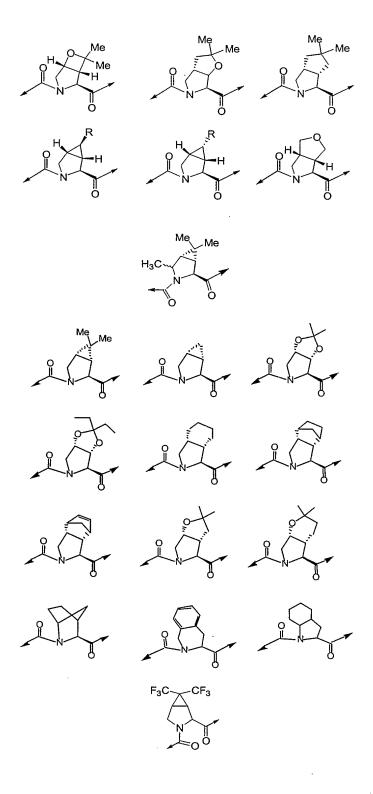
wherein G and J can be the same or different and are independently selected from the group consisting of  $(CH_2)_p$ ,  $(CHR)_p$ ,  $(CHR-CHR')_p$ , and  $(CRR')_p$ ;

A and M can be the same or different and are independently selected from the group consisting of O, S, S)O<sub>2</sub>), N(R), (CH<sub>2</sub>)<sub>p</sub>, (CHR)<sub>p</sub>, (CHR-CHR')<sub>p</sub>, and (CRR')<sub>p</sub>; and

Q is CH<sub>2</sub>, CH(R), C(RR'), N(H), N(R), O, S, S(O<sub>2</sub>), N(R), (CH<sub>2</sub>)<sub>p</sub>, (CHR)<sub>p</sub>, or (CRR')<sub>p</sub>.

24. The compound of claim 23, wherein structure  $\underline{c}$  is selected from the following structures:





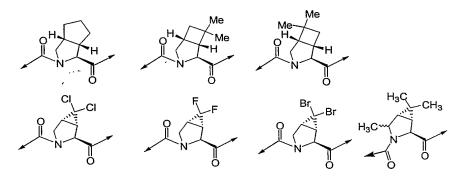
and

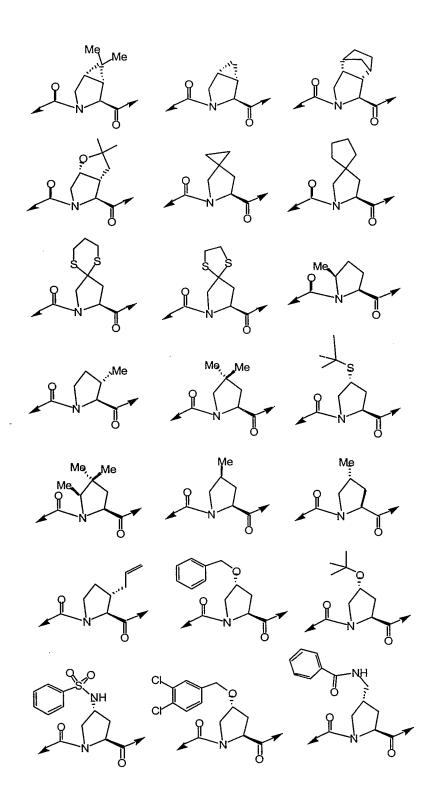
10

where 
$$n=0-4$$
.

25. The compound of claim 12, wherein:

is selected from the following structures:





## 26. The compound of claim 25, wherein:

is selected from the following structures:

27. The compound of claim 25, wherein:

is selected from the following structures:

28. The compound of claim 1, wherein R<sup>2</sup> is the moiety:

- 29. A pharmaceutical composition comprising as an active ingredient at least one compound of compound of claim 1.
- 30. The pharmaceutical composition of claim 29 for use in treating disorders associated with HCV.
  - 31. The pharmaceutical composition of claim 29 additionally comprising a pharmaceutically acceptable carrier.

- 32. The pharmaceutical composition of claim 31, additionally containing at least one antiviral agent.
- 33. The pharmaceutical composition of claim 32, still additionally containing an interferon.
- 5 34. The pharmaceutical composition of claim 33, wherein said antiviral agent is ribavirin and said interferon is  $\alpha$ -interferon or pegylated interferon.
  - 35. A method of treating disorders associated with the HCV, said method comprising administering to a patient in need of such treatment a pharmaceutical composition which comprises therapeutically effective amounts of at least one compound of claim 1.
  - 36. The method of claim 35, wherein said administration is oral or subcutaneous.
  - 37. The use of a compound of claim 1 for the manufacture of a medicament to treat disorders associated with the HCV.
- 15 38. A method of preparing a pharmaceutical composition for treating the disorders associated with the HCV, said method comprising bringing into intimate contact at least one compound of claim 1 and a pharmaceutically acceptable carrier.
- 39. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates and prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being selected from the compounds of structures listed below:

$$\begin{array}{c} CI \\ CI \\ CI \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ C$$

$$\begin{array}{c} H_3C \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH_3 \\ CH$$

H<sub>3</sub>C CH<sub>3</sub> N N N N C

$$\begin{array}{c} H_3C \\ CH_3 \\ CH_3 \\ CH_3 \\ \end{array}$$
 and 
$$\begin{array}{c} CH_3 \\ CF_3 \\ \end{array}$$

- 40. A pharmaceutical composition for treating disorders associated with the HCV, said composition comprising therapeutically effective amount of one or more compounds in claim 39 and a pharmaceutically acceptable carrier.
- 41. The pharmaceutical composition of claim 40, additionally containing an antiviral agent.
- 42. The pharmaceutical composition of claim 41, still additionally containing an interferon or PEG-interferon alpha conjugate.
- 10 43. The pharmaceutical composition of claim 42, wherein said antiviral agent is ribavirin and said interferon is  $\alpha$ -interferon.
  - 44. A method of treatment of a hepatitis C virus associated disorder, comprising administering an effective amount of one or more compounds of claim 39.
- 15 45. A method of modulating the activity of hepatitis C virus (HCV) protease, comprising contacting HCV protease with one or more compounds of claim 39.
  - 46. A method of treating, preventing, or ameliorating one or more symptoms of hepatitis C, comprising administering an effective amount of one or more compounds of claim 39.
- 20 47. The method of claim 46, wherein the HCV protease is the NS3/NS4a protease.
  - 48. The method of claim 46, wherein the compound or compounds inhibit HCV NS3/NS4a protease.

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- 49. A method of modulating the processing of hepatitis C virus (HCV) polypeptide, comprising contacting a composition containing the HCV polypeptide under conditions in which the polypeptide is processed with one or more compounds of claim 39.
- 5 50. The compound of claim 6, wherein R<sup>3</sup> is:

51. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

53. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

5

54. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

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56. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

5

57. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

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59. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

5

60. A compound exhibiting HCV protease inhibitory activity, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being the compound of structure shown below:

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62. A pharmaceutical composition comprising as an active ingredient a compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being selected from the following:

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- 63. The pharmaceutical composition of claim 62, additionally containing an antiviral agent.
- 64. The pharmaceutical composition of claim 63, still additionally containing an interferon or PEG-interferon alpha conjugate.
- 5 65. The pharmaceutical composition of claim 64, wherein said antiviral agent is ribavirin and said interferon is  $\alpha$ -interferon.
  - 66. A method of treating disorders associated with the HCV, said method comprising administering to a patient in need of such treatment, a pharmaceutical composition which comprises therapeutically effective amounts of a compound, or enantiomers, stereoisomers, rotamers, tautomers, racemates or prodrug of said compound, or pharmaceutically acceptable salts or solvates of said compound, or of said prodrug, said compound being selected from the following: